1977-78 NSCA MEMBERS' HANDBOOK

NATIONAL SOCIETY FOR CLEAN AIR

1977-78 NSCA MEMBERS' HANDBOOK

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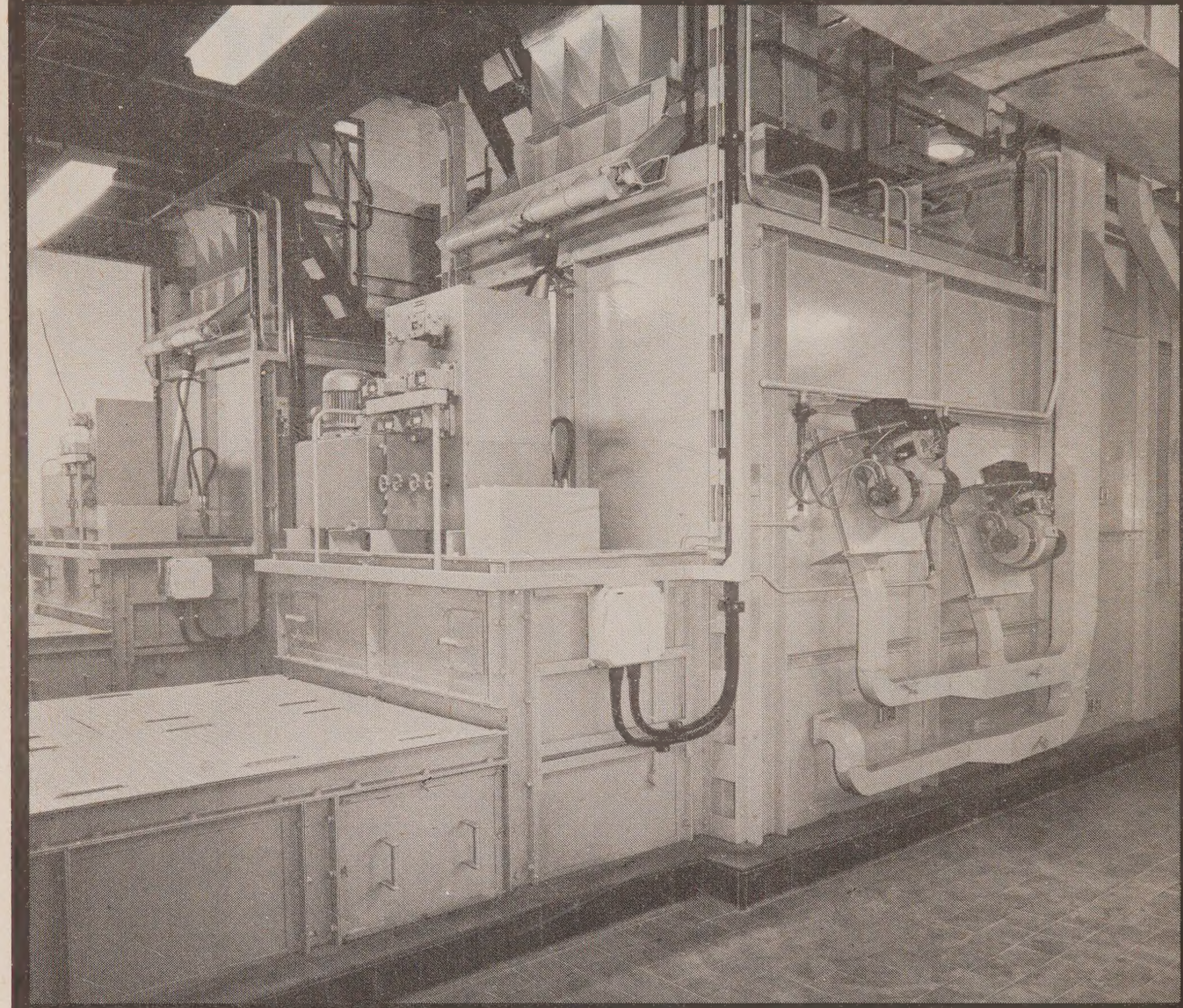

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NATIONAL SOCIETY FOR CLEAN AIR

The parents of the Society were the Coal Smoke Abatement Society, established in London in 1899. In 1929, the CSAS combined with the Smoke Abatement League of Great Britain, a group of provincial associations, and became the National Smoke Abatement Society. The NSAS widened its horizon to cover all forms of air pollution and in 1958 the name was changed to the present one. The Society's membership includes private individuals both at home and abroad, local authorities, corporate bodies representing the learned societies and institutions, the fuel industries, and industries concerned with the production of appliances and equipment for the control of air pollution. The Council of the Society, with a number of reporting committees, governs the organisation and policy of the NSCA, and an administrative staff is employed at the Brighton Headquarters.

The Society's object is to promote public education in all matters relating to the value and importance of clean air, and to initiate, promote and encourage investigation and research into all forms of pollution in order to achieve its reduction or prevention. To this end, the Society has recently extended its interest to include survey of noise, water pollution and wastes disposal. The NSCA is a founder member of an international group of non-governmental organisations, the International Union of Air Pollution Prevention Associations, the function of which is to promote international collaboration and exchange of information, and to organise congresses.

The Society publishes the proceedings of its annual conferences and technical seminars in full. Other regular publications are the journal 'Clean Air' and the Reference Book. Pamphlets, booklets, and technical reports on particular subjects are also published from time to time.

The Society's main activities are the holding of conferences, seminars, meetings and exhibitions. Lectures are given to educational establishments and other groups. The information service provides educational and publicity material, collecting and disseminating books, periodicals, photographs and slides on the causes, effects and prevention of atmospheric and other forms of pollution. Special pamphlets are published for schools, school children and students. The Society is pleased to assist members and others in any part of the country to arrang lectures, talks and exhibitions. Its own modular display panels, which are suitable for small or larger exhibitions, may be borrowed by arrangement. The Society is also prepared to consider participating in suitabl exhibitions.

General advice, assistance and information are available free of charge to members. The Society's Library is available for consultation or for loan purposes. A free postal loan service is extended to members, but others borrowing material are charged for postage and packing. The Library possesses an extensive collection of British and foreign books, reports, papers and current journals. There is a classified collection of photographs (mainly black and white) depicting domestic and industrial smoke; air pollution damage to buildings, metals and plants; air pollution control equipment and installations. A collection of colour slides and filmstrips is also available on loan. Students and research workers are welcomed at the Society's offices to use the Library resources.

Honorary Officers

President: Sir Brian Flowers, MA, DSc, FRS
Immediate Past President: Prof. P.J. Lawther, MB, DSc, FRCP,
Vice Presidents: Commander C. Buist, CVO
Stanley E. Cohen, CBE
J. Innes, OBE
Dr. A. Parker, CBE
T. Henry Turner
Hon. Treasurer: R.A.W. Hollingdale
Chairman of Council: T.H. Iddison, MBE
Deputy Chairmen: Prof. R.S. Scorer, MA, PhD, FRSH, FIMA, FRAeS
H.I. Fuller, MA
Immediate Past Chairman: P. Draper, CEng, FIMechE, FInstF,
Solicitors: Messrs. Wedlake Bell
Auditors: Messrs. Geo. Little, Sebire & Co.

The Council of the Society

Elected Divisional Representatives:

Scotland: I.B. Anderson, I. MacPherson, P.J. McPartlin
Northern Ireland: J.R. Lamont
Northern: C.R. Cresswell, L. Poole, T.W. Yellowley
North West: L. Goodman, I. Liversidge, J.B. Marsh, W.E. Pollitt, J.R. Teale
Yorkshire & Humberside: B. Dwyer, J. Mernagh, G. Robinson W.B. Twyford
West Midlands: G.T. Randall, Rev. B.N. Shackleton, Mrs. W.E. Willetts
East Midlands: R.S. Chamberlain, K.R. Enderby, D.F. Haynes, T. Henry Turner
London& South East: M. Beaumont, J. Clancey, E.S. Herbert, Mrs. D. Hickman, A.G. O'Gilvie, M.F.G. Randall, Prof. R.S. Scorer, G.C. Stubbs, K.J. Winton
Central Southern: R.F. Shapter, B.C. Upton
South West: T.K. Aston, P. Draper, L.E. Robson
South & Mid Wales: C. Lewis, C. Summers

Appointed Representatives of National Bodies:

Asbestos Information Committee: J.L. Kay Green
British Gas Corporation: E.A.K. Patrick
British Steel Corporation: C.M. Davis
Central Electricity Generating Board: A.J. Clarke
Electrical Association for Women: Miss M. George
Electricity Council: D.N. Clouting
E.P.E.M.A.: K.S. Dunn
Environmental Health Officers' Association: T.H. Iddison
Industrial Gas Cleaning Association: K.H. Pearson
Institute of Fuel: B. Lees
Institute of Petroleum: H.I. Fuller
Institution of Gas Engineers: Dr. F.A. Burden
Low Temperature Coal Distillers' Association: R. Pane
National Coal Board: R.W.C. Wheatley
Royal Society of Health: W. Bate
Solid Smokeless Fuels Federation: H. Giblin
Women's Solid Fuel Council: Mrs. J. Saunders
Women's Gas Federation and Young Homemakers: Mrs. R. McLusky

Secretary General: Rear Admiral P.G. Sharp, CB, DSC

DIARY

1978

2 February	am	Technical Committee
	pm	Parliamentary and Local Government Committee
8 February	am	Conference and Publicity Committee
	pm	General Purposes and Finance Committee
5-6 April		Workshop on 'The Role of Planning in the Control of Environmental Pollution', Bristol University
11 May	pm	General Purposes and Finance Committee
25 May	pm	Council of the Society
5 July		Annual General Meeting
2-5 October		45th Clean Air Conference, Brighton "Clean Air: Ways and Means"

ANNUAL REPORT & ACCOUNTS 1976/77

Although the year under review has been one of great activity for the Society, and indeed for all those who are concerned with the environment and clean air, unfortunately I am not in a position to report a great deal of what might be called tangible progress. Nevertheless, there has been a great deal of work going on behind the scenes and it is hoped that this will lay good foundations for measures which, when brought to fruition, will be to the benefit of all. At the root of the difficulty has again been the current economic climate.

Although it was expected that the rate of progress in smoke control would slow down as more smoke control orders became operative, it was not expected that the recession to which my predecessor, Mr. Clancey, referred in his report last year, would continue as long as it has. Unfortunately, I can now only say that the progress in smoke control, possibly due to the effect of the Government's Circular to which Mr. Clancey referred last year, and the continuing adverse economic climate, has not shown any improvement. In fact there has been about 12% less progress in the year under review than in the previous one. And on 22nd December 1976 the Government issued yet another Circular, Circular 123/76 about cuts in public expenditure which imposed a moratorium for six months from 15th December on all expenditure on smoke control. So, from that point of view, the year under review was certainly a lean one. Inevitably, smoke control along with 'other environmental services' should take its fair share of any cuts, but it is depressing nonetheless. The Society has urged local authorities to continue to plan for new smoke control areas when expenditure is once more permitted. I am happy to be able to say that the more far-sighted authorities are doing this and one can therefore look forward very shortly to some slight resurgence in smoke control orders coming into force. Regrettably, however, there are some authorities who may tend to read this particular Circular as yet another mandate for stopping smoke control altogether.

In these circumstances, the role of the Society is clear; we must encourage all such authorities to continue with their programmes and show them that this slowing down in the smoke control programme can be a false economy. But what is perhaps more dangerous is that when a smoke control programme is stopped, some of the general public seem to gain the impression that smoke control is no longer of importance, and indeed is no longer enforceable.

During the last year there have been instances of raw coal being sold and used in smoke control areas. This is a change in attitude of mind of the general public and a change which can only be deplored. Efforts of all those concerned with clean air and the environment must therefore be directed to obtaining a change back to a desire for smoke control which has long been recognised as the cheapest and most effective single action taken to clean the air.

Looking on the brighter side, I am happy to be able to report that some of the provisions of the 1974 Control of Pollution Act have now been implemented. The Regulations regarding the lead content of petrol came into force on 30th November 1976, from which the maximum lead level became 0.50 gms per litre. The Government has accepted the principle of reducing the maximum lead content to 0.40 gms per litre as proposed by the EEC, but considers that this step will not be needed until 1980 or 1981. No agreement has yet been reached within the EEC on this matter. In the present economic climate, not all will agree that these Regulations were necessary. The cause of clean air will be best served by legislation that brings some clearly defined benefit for the cost incurred; but in this case, the evidence is conflicting and the benefits difficult to define. The Government's policy is based on the advice of its Chief Medical Officer at the Department of Health and Social Security that lead emissions from motor vehicles should not be allowed to rise above the level of 1971, and should, if possible, be reduced below that level.

On 7th February 1977, new Regulations about industrial emissions to the atmosphere came into force. These relate to the use of new powers contained in Part IV of the Control of Pollution Act by virtue of which Local authorities can obtain information about industrial emissions to the atmosphere and, for the purpose of informing the public, can then publish that information. Although these new powers are discretionary and by no means mandatory it is hoped that local authorities will utilise these new powers and collect and publish this information, although at present there are few indications that local authorities are doing this. It is significant that certain sections of the Act require those local authorities that wish to exercise their new powers to consult local industry and industrial organisations together with persons 'conversant with problems of air pollution' or those who 'have an interest in local amenity', at least twice yearly about the way in which the local authority concerned should choose to exercise its powers and also to the extent to which and the manner in which any information it collects should be made available to the public. The Government believes that these consultations - which are an essential element in the new procedures - can best be conducted through the establishment of local committees set up on the lines advocated by the report of a special working party of the Clean Air Council in 1973. It was largely at the instigation of the Society that the Government took action and established this working party under the chairmanship of Admiral Sharp. These Regulations were something for which the Society pressed in the past; it is now the concern of the Society to encourage local authorities to use the powers which they have now been granted.

Last year Mr. Clancey drew attention to the Fifth Report of the Royal Commission on Environmental Pollution and the 94 recommendations which it contained. Now, twelve months later, following the issue of a consultation paper by the Department of the Environment, consideration is being given by the Government to the principal recommendation made by the Commission, namely that a central inspectorate (Her Majesty's Pollution Inspectorate of HMPI) dealing with all forms of pollution, should be established.

The Society was able to submit its views to the Department of the Environment about this proposal and suggested after due consideration, that there had been a significant shift of opinion regarding the centralised inspectorate (HMPI) which many feel would overlap with the prerogatives of both the environmental health officers and the Alkali Inspectorate. However, most people would seem to be of the view that there should be a centralised authority to provide expert technical and legal advice and arbitrate on the control of legislation generally. This should not be an inspectorate as such, because this would have the undesirable effect of putting it in the position of both judge and jury in any dispute. The other significant proposal made by the Royal Commission was that the Alkali and Clean Air Inspectorate should be transferred back to the Department of the Environment from the Health and Safety Executive. This view is fully supported by the Society.

In addition to these two important proposals, the Royal Commission made no less than 92 others, ranging from domestic smoke control to proposals with regard to planning. Some of these recommendations are comparatively minor but many are far-reaching indeed, dealing as they do with the very principles of the control of air pollution. It is clear that the principle of the 'best practicable means' is interpreted differently by different people; the idea of air quality criteria or air quality guidelines is welcomed by some, but is deplored by others. The Department of the Environment issued another consultation paper on these particular proposals and the Society has submitted its views on them. The position is made even more complex by the fact that the EEC has continued to issue proposals for Directives in furtherance of its proposed environmental programme. The debate about the best practicable means and air quality criteria is, of course, central to many of these proposals. However, it is to be hoped that common sense will prevail and I am glad to say that it is already being realised that there is something to be said for air quality guidelines or objectives which can be set as targets for the various countries to achieve, using the means most suitable for them, within a reasonable time scale.

Even the simple suggestions about smoke control put forward by the Royal Commission, and which would be acceptable certainly to most members of this Society, may not be sufficient to meet standards proposed for example, in a recent EEC Directive. It is inevitable therefore that the debate will continue and it must not be expected that it will be possible to make decisions lightly or quickly. Nevertheless, I think it is clear from what I have said that the Society has been very much engaged in these problems, and indeed continues to be so. The Council and its Committees are alert to the situation and in a position to make representations as appropriate to the authorities concerned.

Annual General Meeting

The Society's Annual General Meeting was held on Wednesday 7th July at the Central Electricity Board's Lecture Theatre, Sudbury House, London. Considering the very hot weather which was prevailing at the time, the attendance was reasonable. The Annual Report and Accounts were received and Professor P.J. Lawther was re-elected as President of the Society for a further year and Mr. R.A.W. Hollingdale was re-elected to the office of Honorary Treasurer.

The usual Public Meeting followed the business proceedings and this was also well attended. The Right Honorable Denis Howell, MP, Minister of State for the Department of the Environment, addressed the meeting. His address entitled 'The Future of Pollution Control' was reproduced in full in the Autumn 1976 issue of 'Clean Air'.

Annual Conference, Edinburgh

After a space of 19 years, the Clean Air Conference was again held in Edinburgh at the Assembly Rooms and Music Hall in George Street, from 11th October to 15th October 1976. The weather was mixed to say the least but fortunately the Wednesday, on which many of the visits were made, was a really beautiful day. Some 350 delegates attended the Conference and although this number does not compare very well with former years, having regard to the economic state of the country, it was quite gratifying. All the sessions were very well attended; the papers, which were of a high standard were well received and all resulted in lively discussion periods. Compared with the wide spectrum at the Brighton Conference in 1973 when international matters were discussed, the subjects at Edinburgh were perhaps more down to earth and certainly more applicable to the work of local authorities and industries in this country. Perhaps because of this the Conference had a greater appeal to the delegates, most of whom seemed to have thought that the content was about right.

A full report of the Conference was published in the Spring 1977 issue of 'Clean Air'.

Clean Air Spring Seminar 1977

The sixth Clean Air Spring Seminar was held at the Grand Hotel, Manchester on the 9th and 10th March 1977. The theme of the Seminar was 'Noise' which at the outset created a great deal of interest. Unfortunately, however, this interest did not materialise in a practical form in that the numbers attending were far fewer than hoped and indeed expected. Nonetheless, the Seminar was probably the best that the Society has organised so far. The standard of papers was high and the discussion periods were extremely lively. Once again the Society broke new ground and could be seen to be implementing its wider terms of reference. There is no doubt that the delegates who did attend obtained great benefit from this Seminar and it is hoped that this will result in better support in future years.

A full report of the Seminar appeared in the Summer 1977 issue of 'Clean Air'.

The Council and its Committees

The Council and its Committees met regularly throughout the year in accordance with the established programme. I think it will be clear to all from what I said at the beginning of this report that they have been very fully occupied in keeping abreast of changing events and flying the clean air flag at what might be described as a difficult time. At its first meeting the Council very kindly elected me to the office of Chairman, an office which I have been very honoured to hold.

The Conference and Publicity Committee has been fully occupied, not only in preparing the programme for the conference at Edinburgh, the Spring Seminar at Manchester, the forthcoming Conference to be held in Harrogate in September this year and the seventh Spring Seminar to be held in March 1978 in Bristol, but also in considering the whole pattern of conference and seminars in the light of the prevailing economic situation. There is no doubt that there is less support for the annual conference, and indeed the seminars, than there has been in the past. It is to be hoped that this is only a passing phase which will change when the economic climate improves, but in the meantime the Conference Committee have been at pains to tailor the events for which they are responsible to meet the wishes of delegates from local authorities and industry. Partly as a result of this, the Spring Seminar this year was confined to two days; next year it will be held as a residential training seminar at Bristol University. By this means it will be possible to sell the seminar as a 'package deal' which will be less expensive for delegates and it is hoped that this will result in a better attendance. Consideration has also been given to the length of the Annual Conference and this year it will be reduced by one day. Again, this is a means of reducing the expenses of delegates and it is hoped that it will encourage more to attend. Consideration has also been given to the holding of a number of one-day seminars in various parts of the country and this idea is being progressed.

The first part of my report is, I think indicative of the amount of work which has been undertaken by the Parliamentary and Local Government Committee of the Society. This Committee might be described as the watch-dog for clean air and the environment; they have been very fully occupied in preparing considered replies to the various consultation papers which have been issued and keeping abreast of progress about proposals for EEC Directives.

The Technical Committee have been concerned with the production of a new booklet on 'Pollution From Road Vehicles'. It is only fair to say that it was hoped that the booklet would have been published by this time but for a variety of reasons, progress has not been as rapid as originally hoped. Nevertheless work is now progressing and I am very grateful to the members of the Editorial Sub-Committee for the great amount of work and time that they are allotting to this project. I will not tempt Providence by saying when the booklet will be published, but, as a member of the Editorial Sub-Committee, I am hopeful that the work is well on the way to completion.

The General Purposes and Finance Committee have had to devote much effort to the general state of the Society. As you are all aware, at the Annual General Meeting last year it became clear that the Society had had a bad year financially. This should be seen in perspective and this was the first poor year we had had for some time. Nevertheless, it was necessary for certain measures to be taken to reverse this trend in the Society's finances. Although it had been possible for some years as a matter of deliberate policy, not to increase subscriptions, it was felt that action on this had to be taken. Accordingly, increases in subscription were agreed at an Extraordinary General Meeting of the Society which was held at Edinburgh in October last. The new subscription rates came into operation on 1st April this year. Concurrently with this, an appeal was made to our major subscribers and I am happy to say that their response has been very generous.

The Divisions

I am very pleased to say that during the last twelve months, there has been increased activity in the Divisions and many interesting meetings have been held and visits made all over the country. This is extremely gratifying, but what is perhaps more interesting and more encouraging is that some of these meetings have been held in areas in the country where, in the past, there has been little support for clean air. I have every confidence that this increased activity will continue with beneficial results to the Society as a whole.

Publicity and Public Relations

That the Society is becoming better known and recognised as an authoritative source of information in the field of environmental pollution is evidenced by the increased demand for help, assistance, and information from industry, the universities, colleges, schools and school children. Enquiries have come from as far afield as Alaska, Hong Kong, New York and Barcelona. Though some of these enquiries may be regarded as exceptional, they are an indication of how far-reaching is the work of the Society.

Members of the Society and Staff have presented papers at Conferences concerned with the environment not only in this country but also overseas, particularly in May this year at the 4th International Clean Air Congress held in Tokyo. The Secretary General and I were able to attend this Congress and there is no doubt that the Society is held in high regard among its international partners.

Broadcasts have been made on national networks and from local radio stations and there have also been television appearances.

Last year you will no doubt recall that we tried publishing 'Clean Air' only three times a year. I am happy to now tell you that it has been possible to revert to the original pattern and 'Clean Air' is now published quarterly once again. The Year Book was not published at the beginning of this year, but a condensed version will be issued to all members within the course of the next few weeks.

Other Activities

The Society continues to have good representation amongst the membership of the Clean Air Council and indeed the chairman of three committees of the Council are provided from within the ranks of the Society. Similarly, the Society is also very well represented at the Standing Conference of Co-operating Bodies. The Society is also represented on the Committee for Environmental Conservation (CoEnCo) and is, of course, a founder member of the International Union of Air Pollution Prevention Association (IUAPPA).

Last year, Mr. Clancey reported that the Society's finances in common with those of many similar organisations had felt the effects of inflation and constantly rising prices. This has been in the forefront of our minds during the past year and we have been at great pains to reduce expenditure wherever possible while at the same time maintain the essential services provided by the Society. We have also made great efforts to sustain membership and increase subscriptions and in these we have been successful. As a result, although our finances are by no means as health as we would like, they are considerably better than they were this time last year. We are reasonably confident that the measures which have been instituted during the past twelve months have not only arrested the downward trend but will also lead to better things in the coming year.

Conclusion

During a difficult time, the Society has had a very active year. Members of Council and members of Committees have been kept very busy but they have all undertaken their duties cheerfully and willingly. I would like to thank them and the Honorary Officers for all that they have done and the help that they have given me during my term of office as Chairman; and on behalf of all members of the Society I would like to thank the members of our headquarters staff for the very active part they have played in furthering the aims and interests of the Society.

REPORT OF THE HONORARY AUDITORS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have examined the Balance Sheet and annexed Income and Expenditure Account. In our opinion the Accounts comply with the Companies Acts, 1948 and 1967 and give a true and fair view of the state of the Society's affairs at March 31, 1977 and of its deficit for the year ended on that date.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House,
39/45 Finsbury Square,
LONDON EC2A 1AE

5th May 1977

BALANCE SHEET

31st MARCH 19

	Notes	31.3.77 £	31.3.77 £	31.3.76 £	31.3.76 £
FIXED ASSETS					
OFFICE MACHINES AND FURNITURE	1				
As valued by the Secretary General as at 1.4.72	2	1,910		1,910	
Additions at Cost (1976/77 £21)		5,201		5,180	
		7,111		7,090	
Less Depreciation (over 5 years)		6,218	893	4,797	2,29
LIBRARY BOOKS					
At Nominal Value			100		10
			993		2,39
INVESTMENTS AT COST	3				
Fixed Interest Stocks		3,270		3,270	
Ordinary Shares		9,698	12,968	9,512	12,78
CURRENT ASSETS					
Stock of Publications at Secretary General's Valuation		950		1,250	
Sundry Debtors		1,558		3,193	
Prepayments		189		181	
Bank Balances		13,870		17,165	
Cash in Hand		28		15	
		16,595		21,804	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		2,678		8,359	
Net Current Assets			13,917		13,44
NET ASSETS			£27,878		£28,62
Represented by:					
GENERAL FUND					
Balance at start of year			20,542		27,66
(Deficit) for the year			(742)		(7,11
Balance at end of year			19,800		20,54
PREMISES FUND			8,078		8,07
			£27,878		£28,62

R.A.W. HOLLINGDALE - Honorary Treasurer

P.G. SHARP - Secretary General

INCOME AND EXPENDITURE ACCOUNT for the year ended 31st MARCH 1977

		YEAR 76/77		YEAR 75/76	
INCOME	Notes	£	£	£	£
SUBSCRIPTIONS AND DONATIONS			28,682		26,786
CONFERENCE - Edinburgh (Brighton 1975/76)					
Income		12,000		13,614	
Expenses	4	9,208	2,792	15,369	(1,755)
SEMINAR - MANCHESTER (BIRMINGHAM 1975/76)					
Income		2,802		4,090	
Expenses	4	2,576	226	4,584	(494)
Adjustments of earlier years			-		(138)
SALE OF PUBLICATIONS			4,730		4,120
ENVITEC 1977			176		-
INVESTMENT INCOME					
Dividends (Gross)		1,522		1,366	
Bank Deposit Interest		2,303	3,825	2,066	3,432
			40,431		31,951
EXPENSES					
RUNNING COSTS					
Salaries and Wages		29,438		27,373	
Less: Recharged to Conference and Seminar	4	5,887		10,949	
		23,551		16,424	
Staff Pension Scheme		3,020		2,774	
Rent, Rates, Light and Heat		2,354		2,123	
Insurance, Travel, Cleaning and General Expenses		5,441		5,353	
Depreciation: Office Equipment and Furniture	2	1,421		1,418	
Stationery/Supplies		530		759	
Provision for Doubtful Debts		590		467	
		36,907		29,318	
CLEAN AIR AND YEAR BOOK	7				
Printing, Postage, etc.		3,886		10,484	
Less Advertising Receipts		1,226		2,480	
		2,660		8,004	
INFORMATION, PUBLICITY SERVICES AND COST OF PUBLICATIONS		1,146		1,006	
DIVISIONAL GRANTS	6	460		742	
		1,606	41,173	1,748	39,070
DEFICIT FOR YEAR TRANSFERRED TO GENERAL FUND			£(742)		£(7,119)

NOTES TO THE ACCOUNTS 31st MARCH 1977

1. Lease:

The Society bought the lease of its Brighton offices (which is for 14 years from November 15, 1965) and the cost of £2,000 was deducted from the Premises Reserve Fund.

2. Office Furniture and Equipment:

Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and has been included in the Accounts at this figure. The valuation and subsequent purchases are being written off over 5 years.

3. Investments:

The market value of the Society's Investments as at	31.3.77 was	£18,479
	31.3.76 was	£18,935
	Decrease	£ 456

The valuation at 31.3.76 has been increased by £140 to take account of the I.C.I. Rights issue taken up during the year ended 31.3.77

4. Salaries and Wages recharge:

The Expenses of the Conferences and Seminars include 20% of Salaries apportioned in the estimated ratio of the numbers attending the function as follows:

	1976/77		1975/76
Conference - Edinburgh	5,003	Brighton	8,958
Seminar - Manchester	884	Birmingham	1,991
Total recharged (20%)	£5,887	(40%)	£10,949

5. Commitments:

The Society was at March 31, 1977 committed to the publication of two issues of 'Clean Air' at an approximate cost of £2,400.

6. Divisions:

The 12 Divisions of the Society hold balances for local administration purposes which are not brought into these Accounts. As at 31st December 1976 these balances totalled £1,044.

7. Year Book:

The Year Book was not produced in 1976/77.

DIVISIONAL MEMBERSHIP & REPORTS

Division 1
SCOTTISH DIVISION
President: D.M. Wardley, MBE
Hon. Secretary: F.J. Feeley

During the course of the year the Division met once and the Executive Committee on four occasions. At the Annual General Meeting Mr. I.B. Anderson of Inverclyde retired as President and Mr. D.M. Wardley was elected to the office. The Division wish to record their appreciation of Mr. Anderson's services during his period of office. The new President was for many years a leading member of the former Corporation of Glasgow and was also Chairman of the Clyde River Purification Board. He is still an active member of the Board having been appointed thereto by the Secretary of State for Scotland. His efforts in this field were recognised in the New Year Honours list when he was awarded the M.B.E.

The Division are still striving to increase membership but no significant advance has been made although one or two authorities who previously were undecided have now joined.

There was a departure from past practice in that the Division did not hold a conference during the year. The reason for this was that the National Conference was held in Edinburgh and it was considered inappropriate to hold a Scottish Conference. However, it is hoped that the practice of holding a Scottish Conference will be resumed this year, although it may require to be on a modified scale.

It was with some regret that the Division took a decision to discontinue the Firemen's Classes which for many years they organised in conjunction with the Local Authority in Glasgow. However, in recent years there had been a tendency for enrolments to drop as a result of similar classes being run in further education colleges on a day release basis, and in the circumstances the Division decided that the small numbers attending their evening classes did not justify the cost of running these classes. The Division do, however, have the satisfaction of knowing that the lead which they gave through their classes has made education authorities recognise the need for such classes.

The year was not entirely uneventful for the Division in that they were instrumental in stopping the revocation of a Smoke Control Order. This arose when Stirling District Council intimated their intention to revoke an Order in the Bannockburn area and the Division lodged objections. As a result the Secretary of State for Scotland ordered a Public Inquiry and the Division were represented thereat by the Hon. Secretary in his capacity as a solicitor and he also represented a local resident. Following the Inquiry the Secretary of State declined to confirm the Revocation Order. The Division wish to record their appreciation of the invaluable assistance given by the Solid Smokeless Fuels Federation in the preparation of the evidence for the Inquiry.

F.J. Feeley
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
(Scottish Division)
Glasgow, City Of
National Coal Board
South of Scotland Electricity
Board
The Scottish Gas Board

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
East Lothian District Council
Edinburgh, City of
Hamilton District Council
Inverclyde District Council
Inverness District Council
Kirkcaldy District Council
Midlothian District Council
Monklands District Council
Motherwell District Council
Renfrew District Council
Stirling District Council
West Lothian District Council

CORPORATE MEMBERS

Greater Glasgow Health Board
Lothian Health Board
North of Scotland Hydro Electric
Board
Scottish Rexco Ltd.
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Anderson, R.P.
Christie, J.H.
Dunlop, W.A.
Foreman, J.
Gibb, Dr.W.
Hally, J.
Jackson, J.
MacPherson, I.
McGhie, J.R.
Ramsey, Captain E.C.

Division 2
NORTHERN IRELAND DIVISION

Chairman: R. Campbell Brown
Hon. Secretary: J.R. Lamont

The Northern Ireland Division has been somewhat inactive during the year. The cause of clean air has to some degree suffered due to the economic climate.

Local Authorities which have already embarked on a smoke control programme have continued to complete the task, it seems however, that others have yet to commence. This is reflected in the somnabulant state of the Division and it is to be hoped that the Division will shortly take up the challenge again and begin a campaign of education and encouragement.

One sad occurence during the year was the death of Mr. W.E.C. O'Brien, former Divisional Public Health Inspector with Down County Health Committee. Mr. O'Brien was a leading light in the field of Clean Air in Northern Ireland. He was the first Honorary Secretary of the Division of the Society and under his guidance the first Smoke Control Order in the Province was declared by Castlereagh Rural District Council. Mr. O'Brien's infectious enthusiasm for the cause of a clean atmosphere had a marked effect on activities of the National Society here in Northern Ireland. He gave great support to those who followed him in the position of Honorary Secretary since his retirement.

There have been, as in the past, a number of enquiries for information for students on atmospheric pollution. The Honorary Secretary has been able to advise and help in these requests.

J.R. Lamont
Hon. Secretary

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Belfast, City of
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council
Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPORATE MEMBERS

Eastern Health & Social Services Board

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Cave, S.A.
Ellison, C.A.
Hanna, B.P.
Lynas, K.H.

Division 3
NORTHERN DIVISION
Chairman: Cllr. L. Poole, BEM
Hon. Secretary: C.R. Cresswell

In addition to the Annual General Meeting, two well attended meetings of the Division were held during the past year. The first, at Carlisle, dealt primarily with noise and the second, at Newcastle, with asbestos.

In general, due to the national economic situation, there has been a reduction in the numbers of smoke control orders submitted for confirmation and the Government's moratorium on capital expenditure has delayed confirmation in numerous cases. However, smoke control programmes in many areas are still proceeding, albeit at a slower speed than originally planned. Enforcement in existing smoke control areas, however, still presents some problems and the small fines imposed on coal merchants and occupiers of dwellings found guilty of offences do not help.

The Joint Clean Air Committee for the North East have not met at all in the past year, a fact which has caused some disquiet in the Northern region. Attempts are being made to resuscitate this body as it is believed that it still has a part to play in advancing the clean air cause.

Numerous attempts have been made to increase the membership of the Division by inviting private companies to join the Society. However, the only success recorded to date has been a small increase in individual members.

C.R. Cresswell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Teesside Division)
Central Electricity Generating Board (North Eastern Region)
National Coal Board
Northern Gas Board

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow in Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
Middlesborough Borough Council
Newcastle Upon Tyne, City of
North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Sunderland Borough Council
Wansbeck District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (Northern Region)
North Eastern Electricity Board
Proctor & Gamble Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Calvert, Mrs.M.R.
Carr, W.
Cayton, S.
Chambers, A.
Cosgrove, J.
Dalgleish, J.
Eve, Mrs.M.E.
Graham, J.V.
Isaac, Prof.P.C.G.
Mair, L.
Reece, R.
Spriggs, Dr.E.A.
Walker, A.S.
Wilkinson, J.R.
Young, B.N.

Division 4
NORTH WEST DIVISION
Chairman: W.N. Shires
Hon. Secretary: W.E. Pollitt

The Annual General Meeting of the North West Division was held on 23rd June 1976, at the Lord Daresbury Hotel, Daresbury, Nr. Warrington, and was followed in the afternoon by a visit of members to the National Physics Laboratory.

The first meeting of the Divisional Council was held on Tuesday, 28th September 1976, at the Showrooms of the Gas Board, Piccadilly Plaza, Manchester. Mr. C. Darley, Director of Housing and Environment, Wirral, was elected Chairman of the North West Divisional Council for the period 1976/77.

Mr. W. Shires, of M.A.N.W.E.B., was elected Vice-Chairman of the Divisional Council and Mr. W.E. Pollitt and Mr. A. Clusky were elected Honorary Secretary and Honorary Treasurer respectively.

It was decided at this meeting to endeavour to hold more meetings of the general type where all members of the Division could be invited. As a result of this decision three meetings involving all members of the North West Division have been held. The first of these meetings was held at Halewood Public Library on Thursday 4th November 1976, when Mr. Phillip Draper, CEng., FIMechE, FInstF, spoke on "A Practical Approach to the Control of Pollution from Vehicles". This was followed by a tour of Ford's Halewood Factory.

A second meeting in which the full membership were involved was held at the Lord Daresbury Hotel, Nr. Warrington, on Thursday 20th January 1977, when Mr. M.R. Hillis, BSc, PhD, of the Electricity Council Research Centre, gave a paper on the "Production of Ozone and its use in Odour Control" and Mr. D.P. Potter of the Ministry of Agriculture, Fisheries and Food Research Station spoke about the "Potential Application of Ozone for Odour Control".

A further meeting of the full Division was held on Thursday 21st April 1977, at the Civic Centre, Salford, M.D.C., when a paper by Dr. Willis Elwood, Area Medical Officer, Bolton Area Health Authority, assisted by Dr. Taylor of Chloride Industrial Batteries, entitled "Lead and the Environment" was presented. This was followed in the afternoon by a visit to Chloride Industrial Batteries and a tour of the factory.

The Divisional Council met for a second time during the year under review at M.A.N.W.E.B. Headquarters, Chester.

The 1977 Annual General Meeting was held at Liverpool Airport on 6th July. Mr. G. Holmes, Vice President of the Local Authorities Aircraft Noise Council and Chief Environmental Health Officer at Reading, presented a paper entitled "Action Against Aircraft Noise".

Your representatives to the National Council have, during the year, been mainly concerned with the financial situation and its effect on the Society. The reduced attendances at conference and seminars have reduced the income of the Society, this of course is due to cutback in expenditure by many, if not all, local authorities. While there is this cutback in expenditure the Divisional Council and members of the Division are still fully committed in their support and enthusiasm for a Clean Atmosphere.

W.E. Pollitt
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board (North West Region)

Cheshire County Council
Liverpool, City of
Manchester, City of
Mather & Platt Ltd.

National Coal Board
North Western Electricity Board
North West Gas Board
Shell Chemicals Ltd.

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackburn Borough Council
Blackpool Borough Council
Bolton Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Council
Halton District Council
Hyndburn District Council
Knowsley Metropolitan Borough Council
Macclesfield District Council
Oldham Metropolitan Borough Council
Pendle District Council
Rochdale Metropolitan District Council
Rossendale Borough Council
Salford Metrolpolitan District Council
Sefton Metropolitan District Council
South Ribble Borough Council
St.Helens District Council
Stockport Metropolitan Borough Council
Tameside Metropolitan District Council
Trafford Borough Council
Warrington Borough Council
West Lancashire District Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (North West Region)
Greater Manchester Council for Clean Air & Noise Control
Macclesfield Civic Society
Merseyside & North Wales Electricity Board
Nailsea Engineering Ltd.
Sutcliffe Speakman & Co.Ltd.
The Woolton Society

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Amery, A.J.T.
Ault, H.
Barnes, W.
Baxter, T.
Behrens, A.G.
Brown, P.S.
Cass, H.V.
Chandler, Professor T.J.
Christian, F.V.
Clusky, H.
Cook, H.M.
Cooper, R.I.
Cresswell, R.B.
Evans, T.
Fallows, W.B.
Franklin, E.J.
Franklin, N.J.
Gee, Mrs.J.
Gee, J.
Hall, A.
Halliday, A.C.
Hayhurst, H.
Hayhurst, Mrs.K.M.
Heald, Dr. G.E.
Hendy, Dr.B.
Hollingdale, R.A.W.
Hough, D.A.
Jackson, C.L.
Jewsbury, S.
Kitchener, Earl
Leech, Dr.P.W.
Lloyd, A.
Lowe, T.H.
Mather, Sir William
Parsonage, H.
Pike Miss I.M.
Pollitt, W.E.
Richards, J.E.
Shaw, Mrs.M.
Stanyard, R.J.
Sutcliffe, K.S.
Taylor, A.

Thomas, F.L.
Vanstone, H.B.
Wall, E.M.
Winder, F.

Division 5

YORKSHIRE & HUMBERSIDE DIVISION

Chairman: Cllr. J. Mernagh
Hon. Secretary: W.B. Twyford

Three meetings of the Divisional Council were held throughout the year 1976/77 and the first was at Horbury on 2nd September 1976. The second, at Barnsley on 22nd February 1977, was followed by an Open Meeting at which Messrs. M. Gittins and R. Avery spoke on "The Practical and Financial Implications Associated with Clean Air". The third Divisional Council meeting took place on 19th April 1977 at Bridlington and at the following Open Meeting a talk entitled "Another look at Slurry Disposal with an emphasis on Slurry Injection" was given by Mr. G. Sidebottom.

The effects of the current economic climate are now being felt in the field of pollution control as more and more authorities tend to defer the making of Smoke Control Orders in order to effect economies in their budget.

This is to be regretted, particularly since there is no directive to this effect from the Government, and it makes it imperative that the whole of the energies of the Society should be directed towards maintaining a satisfactory rate of progress in achieving overall smoke control.

The Division has not been as active during the past twelve months as I would have hoped, and for this I must accept my share of the responsibility. During the year, I held office in another organisation and had to devote so much time to a matter concerning E.E.C. involvement that it severely limited the amount of time I had available for the activities of the National Society. That other commitment has now finished and I hope that we shall be able to return to a more normal state during this coming year.

W.B. Twyford
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
Sheffield Division
British Steel Corporation
Scunthorpe Division
Leeds, City of
National Coal Board
North Eastern Gas Board
Sheffield, City of
South Yorkshire County Council
West Yorkshire County Council
Yorkshire Electricity Board

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Bradford Metropolitan Borough Council
Cleethorpes District Council
Doncaster Metropolitan Borough Council
Grimsby Borough Council
Harrogate Borugh Council
Kingston Upon Hull, City of
Kirklees Metropolitan Borough Council

Rotherham Borough Council
Scarborough Borough Council
Selby District Council
Wakefield Metropolitan Borough Council
York, City of

CORPORATE MEMBERS

British Acheson Electrodes Ltd.
John Thurley Ltd.
Universal Machinery & Services Ltd.
Yorkshire & Humberside Pollution Advisory Council

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Ball, J.D.
Bell, T.R.H.
Earnshaw, D.N.
Etherington, H.
Fleming, I.
Gittins, M.J.
Hackney, E.S.
Hutton, Dr.K.
Jones, L.
Leadbeater, Dr.B.
Marshall, G.C.
McLaughlin, D.F.
Miller, Dr.J.E.
Perry, A.W.
Ponce, H.
Reynolds, F.
Saword, A.C.
Sewell, Dr.P.
Store, N.J.
Tomlinson, E.S.
Winfield, E.J.
Wraith, M.D.

Division 6
WEST MIDLANDS DIVISION

Chairman: Cllr. G.T. Randall
Hon. Secretary: C.C. Brookfield

One Divisional Council meeting was held at the Midlands Electricity Board, Halesowen. Mr. Graham Simister of the M.E.B. introduced the subject of battery powered road vehicles which was followed by a demonstration of two types of vehicle being used by the Board, a small two seat car and a delivery van. The M.E.B.'s development programme was explained and members were allowed to drive both vehicles.

Despite the low level of interest in Divisional activities there are indications that this is changing and that member local authorities in particular are in future to take a much more positive and active role in the Division. Despite the economic difficulties there have been very few losses of member local authorities and it is hoped that this situation will continue. The one great gap in the local authority membership remains the County Council and there seems little likelihood of change in the immediate future.

One encouraging development during the year has been the proposal for co-operation and joint meetings on subjects of mutual interest with the Midlands Joint Advisory Council for Clean Air and Noise Control. This is an all local authority organisation with very similar interests and it is hoped that this co-operation will develop during 1977.

D.A. Spurrier
Assistant Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Midlands Electricity Board
National Coal Board
West Midlands Gas Board

LOCAL AUTHORITY MEMBERS

Coventry, City of
Dudley Metropolitan Borough Council
Hereford, City of
Newcastle Under Lyne Borough Council
North Warwickshire District Council
Nuneaton Borough Council
Rugby Borough Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stafford Borough Council
Stoke On Trent, City of
Tamworth Borough Council
Walsall Borough Council
Warwick District Council
Wolverhampton Metropolitan Borough Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

The University of Aston in Birmingham
Cradley Boiler Co.Ltd.
Guest Keen & Nettlefolds Ltd.
Lodge-Cottrell Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Busby, H.G.T.
Cawley, Lady
Cookerham, Dr.R.G.
Darnell, J.R.
Fisher, M.J.
Fisher, P.S.
Garner, W.A.
Gillett, J.A.
Grimmett, P.H.G.
Hawksley, P.G.W.
Longley, J.C.
Lowbridge, H.E.T.
Owen, A.G.
Reynolds, K.
Roberts, R.E.J.
Taylor, C.B.

Division 7
EAST MIDLANDS DIVISION
Division 8
EASTERN DIVISION
Chairman: K.R. Enderby
Hon. Secretary: E.F. Raven

It would be impossible to review the past year without referring to finance - or rather the lack of it - and this seems to become almost the inescapable opening gambit for any report such as this. The Society itself is having to exercise considerable care in the use of available money and I am sure that this is both right and necessary at a time when all the organisations and local authorities which you represent are faced with similar difficulties, not to mention those stalwart Individual Members of whom we number quite a few in the East Midlands.

Despite the frustrations of the present impasse, we are all concentrating on making the most of what we have and possibly experiencing a deepened sense of values into the bargain. Certainly so far as this Division is concerned we cannot really complain. Support has remained remarkably faithful in all respects. We have had three very useful meetings during the year - at Buxton, combined with the Tunstead Quarry visit on 1st July 1976, during the great drought, followed by Staveley in September when the transition in the weather had become distinctly marked, but the hospitality of Staveley

Chemicals Ltd., more than offset the chilly conditions outside. In March of this year the Production Engineering Research Association of Great Britain kindly accommodated us at their Headquarters in Melton Mowbray.

The Divisional Council has met on three occasions and not least on its agendas has been a recurring item Local Promotions, which refers to the Essay and Poster Competition which we have been running. The Essay Competition was very poorly supported despite all the efforts of a number of Chief Environmental Health Officers. In the event only three counties - Derby, Leicester and Nottingham were involved, there being one school from Derbyshire, one from Leicestershire, and two from Nottinghamshire - or more accurately - from the City of Nottingham itself. The BP Oil Co. made available copies of their book on "Industrial Archaeology" for the three first prize winning schools. The schools concerned were the Gladstone Boys School at Ilkeston, The Cleveland College in Hinckley, and in Nottingham the Padstow and the Elliot Durham Comprehensive Schools. I am indebted to the CEHO's for the areas for making local arrangements for publicity and presentation of the awards.

Regarding the Poster Competition, here again we must record thanks to all the CEHO's who have fostered interest in this in their Districts and arranged for the selection of local winners. A special thanks to Ken Enderby who arranged the final judging by Mr. Roy Westcombe, a former President of the Peterborough Arts Council. The winner in the Senior class was Jane Hardstaff from Amber Valley, in the Junior class Vanessa Guiblin from the City of Derby and in the Infants class John Keohane of Mansfield.

Last year I made special mention of the contribution made to the affairs of this Division by Councillor C.E. Holland of Ashfield District Council and it is accordingly with regret that I now have to record the death of Councillor Holland during the past year.

E.F. Raven
Hon. Secretary

DIVISION 7

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Chemicals) Ltd.
British Steel Corporation Tubes Division
Central Electricity Generating Board Midlands Region
Coalite & Chemical Products Ltd.
East Midlands Electricity Board
East Midlands Gas Board
National Carbonising Co.Ltd.
National Coal Board.
Nottinghamshire County Council
Rolls-Royce (1971) Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash District Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak District Council

Hinckley & Bosworth District Council
Huntingdon District Council
Leicester, City of
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Nottingham, City of
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough District Council
West Derbyshire District Council

CORPORATE MEMBERS

Low Temperature Coal Distillers Association of Great Britian Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS

Allison, G.
Brown, J.A.
Catlow, J.
Crowther, Dr.J.S.
Davies, D.
Drabble, G.
Fisher, G.R.
Harris, T.A.
Hunt Dr.J.C.R.
Jones, B.T.
McDonald, J.
Mulholland, M.J.
Pepperdine, E.C.
Robinson, A.Lister
Stewart, Mrs.E.E.
Store, N.J.
Turner, Miss H.E.
Turner, T.Henry
Vulliamy, N.M.E.
Waring, F.L.
Weldon, Miss G.M.

DIVISION 8

MEMBERSHIP LIST

SUSTAINING MEMBERS

Eastern Electricity Board

LOCAL AUTHORITY MEMBERS

Basildon District Council
Braintree District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich, City of
Southend-on-Sea Borough Council
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Co.Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Adams, A.R.
Chumley, R.G.
Dobson, P.F.
Fisher, A.H.
Goodfellow, J.
Parsons, E.
Stephenson, Dr.R.J.
Wakefield, D.J.

Division 9
LONDON & SOUTH EAST DIVISION
Division 10
CENTRAL SOUTHERN DIVISION
Chairman: R.F. Shapter
Hon. Secretary: B.C. Upton

A small party consisting of 13 members and representatives visited the

London Brick Company at Stewartby, Bedford on 6th May 1976. The programme commenced with an introductory talk illustrated by slides on the method of brickmaking and the history of the works by Colonel R.J. Harvey, the Public Relations Officer. This was followed by a tour of the works which enabled visitors to observe the various stages of brickmaking in operation. The afternoon was devoted to visiting various sections of the research laboratories.

The Annual General Meeting of the Divisions was held at the offices of the National Coal Board, Hobart House, Grosvenor Place, London on 26th May 1976 when Mr. T.H. Iddison was again elected Chairman. After the business meeting a talk was given by Mr. Michael Hammond of the British Aerosols Manufacturers Association. In his talk, which was illustrated by slides, Mr. Hammond gave details of the history of aerosols, their range of uses, the growth of the industry and the work of his Association.

The second visit during 1976 took place on 16th September when a small party consisting of 10 members and representatives visited the Chloride Automotive Batteries Limited factory at Dagenham. The tour of the works revealed the various stages in the manufacture of vehicle batteries and particular interest was shown in the methods of air pollution control.

Finally, an Open Meeting was held at the Livery Hall, Guildhall, London on 4th October at which Professor P.J. Lawther, President of the Society, gave an address on the occasion of the City of London's Anniversary of 21 years of Clean Air. Professor Lawther gave an interesting talk on the early days of Smoke Control and the beneficial effects of clean air in the City of London which was greatly appreciated by about 110 persons who were present.

After this meeting there was an opportunity to visit the City of London Clean Air Exhibition in the Royal Exchange. This was followed by a Luncheon in celebration of 21 years of Clean Air in the City at the Mansion House, to which some members were invited. Mr. Stanley Cohen was responsible for the very efficient organisation of the anniversary celebrations.

The Annual General Meeting of the Divisions for 1977 was held at the County Hall, Westminster Bridge, London on 4th May when Mr. R.F. Shapter was elected Chairman and Mr. M.F.G. Randall was elected Deputy-Chairman. After the business meeting in the afternoon a talk was given by Dr. S.W. Radcliffe of the Scientific Branch, Greater London Council on the subject of Pollution Control in London. He outlined the work of his department in the fields of air pollution, noise measurements and its consultancy services. Dr. Radcliffe also gave details of the methods of monitoring and data processing.
The discussion after the talk was followed by a conducted tour of the laboratories in the County Hall.

On 28th June 1977 a small party consisting of 11 members and representatives spent the day at the Central Electricity Research Laboratories at Leatherhead. This proved to be an extremely interesting visit. The programme consisted of lectures, films and a tour of part of the laboratories. The subjects included Dust Monitoring, Sulphur Removal, Acid Smuts, Additives and Heated Stacks.

B.C. Upton
Hon. Secretary

DIVISION 9

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas Corporation
British Petroleum Co.Ltd.
B.P.Oil Ltd.
British Steel Corporation
Central Electricity Generating Board
Coal Merchants Federation of Great Britain
Courtaulds Ltd.
Eastern Gas Board
Electricity Council
Environmental Protection Equipment Manufacturers Association
Esso Petroleum Co.Ltd.
Greater London Council
Imperial Chemical Industries Ltd.
Industrial Gas Cleaning Association
Institute Of Petroleum
Mobil Oil Co.Ltd.
National Coal Board
North Thames Gas Board
Shell International Petroleum Co.Ltd.
Shell U.K. Oil Ltd.
South Eastern Gas Board
Texaco Ltd.

LOCAL AUTHORITY MEMBERS

Ashford Borough Council
Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
Bromley, London Borough of
Broxbourne Borough Council
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford District Council
Dover District Council
Ealing, London Borough of
Eastbourne Borough Council
Elmbridge District Council
Enfield, London Borough of
Epsom & Ewell Borough Council
Gillingham District Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hillingdon, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, London Borough of
Kingston Upon Thames, London Borough of
Lambeth, London Borough of
Lewes District Council
Lewisham, London Borough of
London, City of
Medway Borough Council
Merton, London Borough of
Mid Sussex Borough Council
Redbridge, London Borough of
Reigate & Banstead Borough Council
Richmond Upon Thames, London Borough of
Southwark, London Borough of
Surrey Heath District Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Wandsworth, London Borough of
Watford Borough Council
Waverley Borough Council
Welwyn Hatfield Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Asbestos Information Committee
Associated Portland Cement Manufacturers Ltd.
Atkins, W.S. Group Ltd.
British Independent Steel Producers Association
Brookway Engineers Ltd.
Buckle, G.H. & Partners
Caltex (U.K.) Ltd.
Charrington Solid Fuel Ltd.

Cleerburn Ltd.
Conoco Ltd.
Dust Suppression Ltd.
Electrical Association for Women
Englehard Sales Ltd.
Environmental Health Officers Association
Flaregas Engineering Ltd.
A.Guinness, Son & Co.(Park Royal) Ltd.
Harvey J.Smith & Associates
Institute of Fuel
Institution of Gas Engineers
London Electricity Board
London Transport
Royal Society of Health
S.F.Air Treatment Ltd.
Solid Smokeless Fuels Federation
Sumner, G.& Partners
Women's Solid Fuel Council
Women's Gas Federation and Young Homemakers

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Ackworth, Miss E.A.
Barber, D.
Barnes, K.
Beaumont, M.
Bond, Prof G.G.
Boult, Sir Adrian C.
Bradshaw, N.F.
Brown, H.
Brown, T.J.
Buist, Commander C.
Butler, J.W.
Carter, Dr.J.S.
Catt, L.
Chatfield, A.J.
Clancey, J.
Coker W.G.
Colville, Lt.Com.R.F.
Comer, P.J.
Courtier, G.B.
Craxford, Dr.S.R.
Cross, Dr.R.F.
Crumpler, K.A.R.
Curtis, B.
East, R.G.
Eaton, Dr.F.J.
Ellis, P.T.A.
Elsworth, Mrs.F.S.
Farrell, J.
Fitt, N.R.
Forrester, Dr.C.
Gandy, Miss R.L.
Garland, G.E.
Garland, P.
George, Miss M.
Gillett, I.
Gimpel, Mrs.C.
Goldsmith, A.
Grant, P.M.
Greenhead, E.
Hamilton, Dr.P.M.
Held, P.E.J.
Henson, C.G.
Hickman, Miss. V.
How, M.D.
Iddison, T.H.
Ingus, Miss A.M.
Jackman, F.A.
James, B.W.
Jellis, F.
Langwell, W.H.
Lax, Mrs.G.
Lord, D.G.
Marsdin, R.
Maynard, M.J.G.
Menuhin, Yehudi
Milburn, Miss M.
Miles, S.E.
Monkhouse, Dr.A.C.
Moores, A.R.
Mowle, C.R.
O'Gilvie, A.G.
Paddock, P.B.
Parker, Dr.A.
Parker, Dr.R.A.
Pennington, W.J.
Poole, Mrs.W.M.
Porter, D.A.
Potter, Dr.N.M.
Putnam, R.V.
Rice, A.P.
Rosling, Miss E.M.
Sandford, L.M.
Scorer, Professor R.S.
Seale, R.J.
Sehter, L.
Selway, C.R.
Shillito, D.E.
Shoham, J.
Smith, Mrs.P.

Stoddard, D.E.
Stubbs, G.C.
Sullivan, J.S.
Sutherland, Miss.E.A.
Todd, G.F.
Tomi, D.T.
Train, Dr.D.
Tucker, S.W.
Turner, Dr.W.C.
Vine, Mr.& Mrs.G.M.
Walker, D.M.
Watson, Professor H.E.
Weldon, S.
Wermann, J.C.
Westbrook, J.
Whittingham, J.T.
Wigan, H.N.
Wooldridge, K.G.W.

DIVISION 10

MEMBERSHIP LIST

SUSTAINING MEMBERS

Southern Electricity Board
Southern Gas Board

LOCAL AUTHORITY MEMBERS

Aylesbury Vale District Council
Bedfordshire County Council
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Havant District Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Rushmoor Borough Council
Slough Borough Council
Southampton, City of
South Bedfordshire District Council
South Oxfordshire District Council
Vale Of Whitehorse District Council
Winchester, City of
Wycombe Borough Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
Metal Box Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Armstrong, F.W.
Bartlam, J.N.
Bastock, P.E.
Billington, N.J.
Bradbury-Williams, J.C.
Bridgen, R.F.
Brooks, R.
Bryant, Miss P.M.
Combey, W.
Cowling, D.W.
Dugdale, Mrs.B.
Haywood, L.H.
Hinde, Dr.P.T.
Jones, Dr.L.H.P.
Kirk, J.C.
Nonhebel, Dr.G.
Parry, M.
Rasell, G.J.
Scotson, D.A.
Slater, Dr.D.H.
Tagg, J.R.
Verdin, A.

Division 11
SOUTH WEST DIVISION

Chairman: Cllr. C. Hebblethwaite, CBE
Hon. Secretary: D.J. Barnett

After a year of difficulties which resulted in no meetings being held, the South West Division once again resumed its programme of three meetings per year. The Annual General Meeting was held on 3rd June 1976, at the Council

House, Bristol, when the Divisional Council and the Division's representatives on the Council of the Society were elected and the programme of activities for the ensuing year was decided.

On the 4th November 1976 a most interesting meeting, combined with a visit, was held at the Filton, Bristol Works of Rolls Royce (1971) Ltd. These works manufacture the world-famous aircraft engines, and after a very short business meeting the day was devoted to a presentation on the main activities of the Company and a tour of the works. Particular attention was paid to noise and air pollution control from aero engines and to the problem of environmental noise control around the works.

The next meeting of the Division was held in Plymouth on 15th March 1977. This was an Open Meeting, the purpose of which was to stimulate interest in the southern part of the Division's area, particularly in Devon and Cornwall with the hope that new members would be recruited. The Speaker at the Open Meeting in the afternoon was to have been Professor Lawther, but unfortunately he was taken ill the day before the meeting. However the Division were most grateful to Mr. Waller who stepped into the breach at extremely short notice and gave a very stimulating talk to the 60-70 people who attended the meeting.

All in all this was a year of some activity in the South West and I look forward to a further successful year in the coming year commencing with the Annual General Meeting in Poole on the 22nd June 1977.

D.J. Barnett
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board South West Region
National Coal Board
South Western Gas Board

LOCAL AUTHORITY MEMBERS

Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Taunton Deane District Council
Teign Bridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Weymouth & Portland District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.
Electroloid Ltd.
J.D.Wilson & Partners

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Barnett, D.J.
Capper, A.J.
Chanda, D.M.
Colehan, J.E.
Davies, P.M.
Day, M.R.
Draper, P.
Gallop, J.
Hockin, Dr.L.E.

Lane, Dr.J.J.
Norman, L.
Sparrow, Dr.C.J.
Wakeley, R.W.
Wallis, Mrs. E.
Watkins, E.R.

Division 12
SOUTH & MID WALES DIVISION

Chairman: Cllr. C.R. Lewis
Hon. Secretary: L. Morgan

The Honorary Secretary has nothing to report.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
Strip Mills Division
Mid Glamorgan County Council
National Coal Board
Wales Gas Board

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cardiff, City of
Cynon Valley District Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely District Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

Coal Merchants Federation of Wales (Eastern Area)
South Glamorgan Institute of Higher Education
South Wales Electricity Board
Swansea Port Health Authority

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS

Brownrigg, M.A.
Daly, R.
Dearden, Mr.& Mrs.J.
Harrop-Griffiths, H.
Heard, M.J.
Perriman, R.J.
Steer, J.
Taylor, B.C.

NSCA PUBLICATIONS

Prices quoted are those current at the date of publication, and are subject to variation. Please add 20% of the total cost of publications for postage and packing, with a minimum addition of 10p and a maximum of 75p. These charges do not apply to orders for the Society's leaflets nor to bulk orders of any one publication or publications.

All orders are sent by second class mail or parcel post in Great Britain; overseas orders are sent by book post. If specifically requested, publications will be sent by first class mail, air mail, registered post etc, but the additional costs incurred will be charged.

Information about older, out-of-print and overseas publications may be obtained from the Society on request. Some are available for purchase whilst many are in the Society's library and can be consulted or borrowed for short periods.

"Clean Air"
The journal of the Society. It contains articles, photographs, reports, news items, abstracts and other current information appertaining to air pollution and allied matters. Subscription rate for 1977: £2.50 post free and for 1978: £3.00 post free.

"Sulphur Dioxide"
An examination of sulphur dioxide as an air pollutant. 2nd edition - revised and updated.
Price: £1.00

"An Outline of the Law Relating to Air Pollution"
A summary of legislation.
Price: 25p

"Fumifugium" or "The Smoake of London Dissipated"
John Evelyn's well-known tract (1661).
Price: 25p

"Towards Cleaner Air"
A very good general introduction to the subject of clean air. Revised and updated.
Price: 50p

"Pollution"
An introduction to the whole subject of pollution for school children and students up to 'O' level standard.
Price: 10p

Conference and Seminar Papers
All at 50p per paper or £5.00 per complete set together with Part II

Scarborough Conference, October 1972.
Part I:
1. Pollution Control - How far can we go? - Prof. C.J. Stairmand
2. Metals in the Atmosphere - R.A. Fish
3. The Scheduled Processes - F.E. Ireland
4. The Chemical Industry and Air Pollution - F. Whiteley
5. Odour Nuisances in Industry - T.R. Jones
6. Odour Nuisances in Agriculture - Dr. F.H. Peakin
7. Effects of Air Pollution on Plants - Dr. L.H.P. Jones and D.W. Cowling

PartII: Opening Address by Lord Kearton, Presidential Address by Stanley E. Cohen and Reports of Discussions.

Torquay Conference, October 1973.
Part I:
1. Smoke Control - A Stocktaking of the Present Position - Mrs. A. Moss
2. Dartmoor Under Pressure - Lady Sayer
3. The Invasion of the South West's Environment - P. Turnbull
4. Control of Emission for Combustive and Non-Combustive Sources - K. Darby and K.R. Parker
5. Living in Polluted Cities - F.J.C. Amos
6. Pollution and Health - Dr. R. Murray
7. The Effects of Some Air Pollutants on Farm Animals - Dr. L.H.P. Jones and D.W. Cowling
8. The Effect of Pesticides on Life in the Soil - J. Newman
9. Effects of Nitrates on Farm Animals - A.H. Walters

Part II: Opening Address by D. Davies, Presidential Address by H.B. Greenborough, and Reports of Discussions

Cardiff Conference, October 1974
Part I:
1. New Legislation affecting the Environment and its Implications and Effects - W. Bate
2. Environmental Pollution: The Technical Aspects of Co-operation Between Industry and the Local Authority - Dr. R. Jenkins
3. The Propagation and Screening of Traffic Noise - T.W. Heppell
4. Preliminary Findings of the Five Towns Survey - Dr. R.G. Derwent and Dr. H.N. Stewart
5. The Prevention of Pollution from the Coal Industry - D.H. Broadbent
6. The Prevention of Pollution from the Steel Industry - Dr. A. O'Connor
7. Wild Life and the Effects of Pollution - Professor K. Mellanby
8. The Measurement of Heavy Metals in the Atmosphere and their Interpretation - N.J. Pattenden
9. The Use of Moss-Bags as Deposition Gauges for Airborne Metals - Professor G.T. Goodman, S. Smith, G.D.R. Parry and M.J. Inskip

Part II: Civic Welcome and Opening Address by The Right Worshipful the Lord Mayor of Cardiff, Presidential Address by H.B. Greenborough and Reports of Discussions

Brighton Conference, October 1975.
International Clean Air and Pollution Control Conference.
Part I:
INTERNATIONAL ATTITUDES TO THE CONTROL OF POLLUTION
1. A Comparison of Approaches - Dr. L.E. Reed and Dr. W.T. Westaway
The United Kingdom Approach and its Application
2. By Central Government - M.F. Tunnicliffe
3. By Local Government - T.H. Iddison
The European Approach and its Application
4. Pollution Control in the European Economic Community - S.P. Johnson (Commission of the European Community)
5. Criteria and Standards for the Protection of Man and his Environment in the Environmental Action Programme of the European Communities - Dr. P. Recht, J. Smeets and W. Hunter (Commission of the European Communities)
6. A New Approach to Standards - Dr. L.A. Clarenburg (Netherlands)
ENERGY FROM THE CONTINENTAL SHELF
7. Exploration - J.M. Bowen
8. Production and Pollution Control - F.G. Larminie
9. North Sea Oil - In Context and Perspective - H.B. Greenborough
TECHNICAL ASPECTS OF THE CONTROL OF INDUSTRIAL POLLUTION
10. The Prevention of Pollution by Gases from Industrial Installations - J.P. Detrie (France)
11. Technical Aspects of the Purification of Industrial Effluents - Dr. F. Malz (W. Germany)
12. Toxic and Other Hazardous Wastes - R.A. Fish
CONSERVATION OF RESOURCES
13. Development and Conservation of Human Resources to Assure Environmental Quality - Professor C.E. Barthel (U.S.A.)
14. Non-renewable Mineral Sources for the Future - Professor F. Roberts
POLLUTION FROM ROAD VEHICLES
15. One Man's Car - Another Man's Poison? - Dr. S. Reed
16. The E.E.C. Philosophy of Control - D. Verdiani (Commission of the European Communities)
17. Control of Pollution and Noise from Automotive Sources - D. Collins

Part II: Opening Address by Professor K. Shiozawa, Presidential Address by Professor P.J. Lawther and Reports of Discussions

Edinburgh Conference, October 1976
Part I:
1. Noise as an Air Pollutant - Dr. A.J. Crosbie
2. The Industrial and Local Authority Approach to Neighbourhood Noise - J.H. Richardson and R.W. Smith
3. Smoke Control - A Review of the Present Position and the Way Ahead - W.J.S. Batho
4. Smoke Control in an Industrial Area: Experience in North East England - L. Mair
5. The Findings and Recommendations of the Royal Commission on Environmental Pollution - Sir Brian Flowers
6. People, Pollution and Retribution - Professor G.M. Howe
7. Rural Pollution - The High Peak, Derbyshire - I. Holmes

8. Energy Sources - What are the Alternatives - Dr. J.C. McVeigh
9. The Scope for Solar Energy in the Energy Pattern of the Future - P. Brunt
10. The Utilisation of Solar Energy - B. McNelis
11. The Disposal of Toxic and Radio-active Wastes - Dr. D.H. Sharp

Part II: Opening Address by The Lord Provost of Edinburgh, Presidential Address by Professor P.J. Lawther and Reports of Discussions.

Harrogate Conference, September 1977.
Part I:
1. Clean Air - Some Random Thoughts on the State of Play - T.H. Iddison
2. The Society and its Future - Rear Admiral P.G. Sharp
3. The Effects of Air Pollution on Health - Professor P.J.Lawther
4. The Effects of Air Pollution on Amenity - Professor K.Mellanby
5. What has been Achieved and What Remains to be Done - In the Domestic Field - E.W.Foskett
6. What has been Achieved and What Remains to be Done - In Industry - C.J.O.Moorhouse
7. The Fifth Report of the Royal Commission on Environmental Pollution - Comments by the CBI - A.I. Biggs
8. The Environmental Programme of the EEC and its possible Effects on Existing Clean Air Legislation - A.J.Fairclough
9. Air Pollution and Plants - Dr. P.J.W.Saunders
10. The Influence of Aerial Pollution on Agricultural Crops - Professor C.P.Whittingham
11. Effects of Atmospheric Pollutants on Forests and Natural Plant Assemblages - Professor F.T.Last
12. Radioactivity and the Nuclear Fuel Cycle - Dr.R.H.Clarke
13. The Control of Airborne Radioactive Emissions from Nuclear Power Stations in the U.K. - J.Beighton
14. Exposure of the Public to Radioactive Discharges from the Nuclear Fuel Cycle - Pamela M.Bryant and Frances E.Taylor

Part II: Reports of Discussions.

Technical Seminar, Manchester, March 1972.
Part I:
1. Industrial Waste - the Problem of Disposal - N. Iliff
2. On site Incineration - K.S. Dunn
3. Centralised Incineration - W.A. Clennel and C.R. Mowle
4. Incineration of Rubber and Plastic Wastes - G. Cheater
5. Incineration of Sewage Sludge - G. Moodie
6. Integrated Environmental Design - H.G. Mitchell
7. The Role of the Heating and Ventilating Engineer in Pollution Control - F.M.H. Taylor
8. Dust Control in Factories - P. Swift
9. Clean Rooms - R.B. Williamson
10. A Practical Approach to the Statutory Control of Emissions - C.R. Cresswell
11. Grit and Dust from Non-Combustive Processes - C.D. Darley
12. High Efficiency Gas Cleaning - K. Darby

13. Some Problems of Dry Processes for Removing SO_2 from Flue Gases - J. Bettelheim and B.H.M. Billinge
14. Electrostatic Precipitators - A.J. Moyes and M. Swift
15. Boiler Furnace Design Considerations for Dual Fuel Firing - H.B. Weston
16. Modern Chimneys - M. Beaumont
17. Progress in Automatic Control - R.P. Braby

Part II: Report of the Discussions

Technical Seminar, Oxford, April 1973.
Part I:
1. Lead in Petrol - is it Necessary? - C.L. Goodacre
2. Acceptable Devices for the Control of Emissions - Expert Panel
3. Why do Diesels Make Smoke - How May it be Abated? - N.M.F. Vulliamy
4. Regulations Regarding Smoke Emission: Are They Adequate? How Can They Be Strengthened? - P. Draper
5. Control of Pollution in Jet Engines - M.R. Williams
6. Gas Turbines for Rail Traction - M.A. Stokes
7. The Future: The Alternative to the Motor Car - or Alternative Fuels - Dr. C.G. Williams

Part II: Report of Discussions

Technical Seminar, Sheffield, March 1974
Part I:
1. A History of the Campaign Against Air Pollution in Sheffield and District - A.F. Maule
2. Atmospheric Pollution Control in the Iron and Steel Industry - J.H. Flux
3. The Development of Fume Cleaning Plant for the Templeborough Electric Melting Shope, B.S.C. - I.C. Cross
4. Environmental Control in the Manufacture of Artificial Graphite - A.N. Howard
5. The Use of Natural Gas in Industry and its Contribution Towards Cleaner Air - Dr. P.B. Simpson
6. Now Solid Fuel Makes a Clean Sweep - J.G.S. Smith
7. The Contribution of the Alkali Act - M.F. Tunnicliffe
8. River Pollution Prevention and its Relationship with Atmospheric Pollution - T.W. Raven
9. Reduction of Combustion Generated Air Pollution - Professor J.M. Beer and Dr. A.B. Hedley

Part II: Report of Discussions

Technical Seminar, Newcastle upon Tyne, March 1975
Part I: The Second Working Party on Grit and Dust
1. General Considerations - Dr. G.G. Thurlow
2. The Work of the Incineration Panel - G. Taylor
3. The Work of the Cold Blast Cupola Panel - P.J. Moseley and F.M. Shaw
4. Dryers and Miscellaneous Furnaces - E.B. Briggs

Monitoring
5. Instrumentation for Particulate Measurement - A. Keating
6. The Need for Monitoring - A. Archer

7. Practical Experience on Measurement of Grit and Dust Emissions - W. Short
8. Measurement and Standards for Pollutant Emissions from Stationary Sources - S.C. Wallin and P. Clayton

Control of Grit, Dust and Fume

9. Specific Problems - Dr. E.T.J. Fuge
10. Grit Arrestors - H. Westwood
11. The Electrostatic Precipitator at High Temperature - K. Darby and K.R. Parker
12. Bag Filters for Dust Arrestment - H.A. Edwards
13. Extraction of Solids from the Flue Gas Stream of Oil Fired Boilers - M. Beaumont
14. Afterburning as a Means of Fume Incineration - J. Thurley

Part II: Reports of Discussions

Technical Seminar, "Odours", Birmingham, March 1976

Part I:

1. The Public Attitude - F.G. Sugden
2. The Legal Position - R.G. Goodbody
3. The Second Report of the Department of the Environment Working Part on the Suppression of Odour from Offensive and Selected Other Trades - Dr. H.N.M. Stewart
4. The Effects of Odours on Health - Dr. C. White
5. Factors in the Answer to Some Problems - Dr. B. Leadbeater
6. Odours from the Food and Fish Processing Industries - D.D. Singer and Mrs. R.O. Hunt
7. Farming - C.T. Riley
8. Animal By-Products - K. Sharples
9. The Incineration of Exhaust Fumes from Solvent Based Paint Stoving Ovens - J.I. Morris
10. Adsorption - Dr. I. Young
11. Research and Development - A.A. North

Part II: Reports of Discussions

Technical Seminar, "Noise", Manchester, March 1977

Part I:

1. Noise Control - The Present and Future Position - F. Reynolds
2. Industrial Noise: A Case for Legislation - M. Ankers
3. Noise Reduction: Has Education a Role to Play? - A.J. Percival
4. Noise Abatement Zones - C.N. Penn
5. Reduction of Vehicle Noise at Source - J.W. Tyler
6. Aircraft Noise as a form of Pollution - R.J. Hill
7. Noise and the Worker - R. Harrison
8. Noise from Construction Sites - D.L. Barry

Part II: Reports of Discussions

POSTERS
All double crown - 20" wide x 30" deep

1. Prevent Air Pollution - Britains Biggest Headache
2. Lungs, Plants, Animals, Buildings and Your Pocket are being attacked by Polluted Air
3. Couldn't You Do With Some Clean Air?
4. Road Vehicle Pollution

Price: 15p per poster
£10 per 100 - can be mixed

LEAFLETS
Sample copies sent on request

1. Garden Bonfires
   £2.50 per 1,000, 5,000 or more less 25% discount
2. Prevent Air Pollution
   £5.00 per 1,000, 5,000 or more less 10% discount
3. Clean Air Begins at Home
   £7.00 per 1,000, 5,000 or more less 10% discount

SMOKE CHARTS

Ringlemann Smoke Chart, complete with instructions
Price: 30p each, £2.50 for 10

Powers Microringelmann
Direct facsimile reduction of the Standard Ringelmann Chart
Price: 50p each, £4.50 for 10

FILMS & FILM STRIPS

Following is a list of films and filmstrips on varied pollution and environmental aspects. Application for the loan of films should be made to the issuing organisation referred to in the lists.

The films are on free loan unless hire charges or purchase price are quoted. Two or three weeks' advanced notice of hire should be given. The running time of films in minutes is included. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Members' Handbook.

ASBESTOS INFORMATION CENTRE

A number of 16 mm colour sound films are available through the Asbestos Information Centre. Because of changing health and safety standards it is recommended that potential borrowers first discuss their requirements and interests with the A.I.C.

MIRACLE FIBRE - KILLER DUST?
A pulsed slide-tape presentation (18 mins.) is also available from the A.I.C. This programme looks at the nature and uses of asbestos together with information on health and safety. The programme is usually presented by an approved A.I.C. lecturer.

Available from:
ASBESTOS INFORMATION CENTRE
31, Old Burlington Street,
London W1X 1LA
tel: 01-493 0573

BRITISH GAS CORPORATION

THE AIR - MY ENEMY
The main theme is air contamination by smoke and SO_2, but other forms of pollution which cost Britain £400m a year are described. The success achieved in London is outlined. Research into better ways of using fuel is being carried out. One answer is natural gas, which produces no impurities - the domestic chimney is still an important source of atmospheric pollution.
Colour/sound 25 mins. 16mm

KITCHEN THINK
An animated cartoon sponsored by British Gas, with commentary written and narrated by Frank Muir. It provides a light-hearted look at the ways in which man has developed the place where cooking is done, from a pre-historic cave fire to the streamlined spit-level kitchen of today. Also practical advice on how to plan a kitchen.
Colour 10 mins. 16mm

The above films are available from
VISCOM FILM LIBRARY
16 Paxton Place
London SE27 9SS
tel: 01-670 5786

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY
A review of the causes of 'dirty air' as produced by domestic and industrial smoke, traffic, etc. The effect on the lungs of living in this type of atmosphere is briefly shown and the film is of value to Public Health Workers as a means of ramming home the ill effects of a smoky atmosphere.

Colour 10 mins. 16mm £2 + VAT

Available from:
BMA/BLAT FILM LIBRARY
BMA House
Tavistock Square
London SC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

CLEAN BEACHES

Of particular interest to National and Local Authorities concerned with oil pollution of beaches. The film shows some of the methods and equipment which have been developed in the last few years to deal with oil slicks at sea, and demonstrates methods of disposal should they reach the shore.
Colour/sound 14 mins. 16mm

Available upon application only from:
THE BRITISH PETROLEUM CO. LTD.
Attn: Films/TV Branch
Britannic House,
Moor Lane,
London EC2Y 9BU
tel: 01-920 8000

LOCATION NORTH SEA

Shows the first drilling/production jacket, weighing 30,000 tons, being towed 250 miles out to B.P.'s Forties oilfield in the North Sea
Colour/sound 16 mins. 16mm

REFINING

A light-hearted film approach to the problem of explaining to a non-technical audience the basic principles of refining crude oil. A cartoon figure detaches himself from a party touring a refinery. He comments ironically on the formidable technical jargon used by the guide and explains humorously and in easily understood terms what the guide really means. 1968.
Colour/sound 18 mins. 16mm

THE SHADOW OF PROGRESS

A broadly based, international film which examines this affluent technological age and the crisis provoked by human expansion in a finite world. Air water and soil, space to live and the quality of life are all studied.
Colour/sound 27 mins. 16mm

THE TIDE OF TRAFFIC

Man now finds himself caught between the motor vehicle's massive benefits and the social and environmental problems brought about by the scale of its usage.
Colour/sound 29 mins. 16mm

WEB OF LIFE SERIES

Seven films examining the ecological balace of the world's major systems: THE LIVING LAKES; THE LIVING MOUNTAINS; THE LIVING RAIN FOREST: THE LIVING RIVER: THE LIVING SAVANNA: THE LIVING TUNDRA: THE LIVING WOODLAND.
Colour/sound 30 mins. each 16mm

The above films are availabe from:
THE BP FILM LIBRARY
15 Beaconsfield Road
London NW10 2LE
tel: 01-451 1129

CEGB FILM LIBRARY

CHANGE FOR SAFETY

Shows the nuclear safety rules being applied in a nuclear power station. Power station workers are depicted going about their normal business, adherence to the rules making them completely safe from the effects of any radiation. Different types of radiation are explained in diagrammatic form. 1970.
Colour 24 mins. 16mm/35mm

ELECTRICITY AND THE ENVIRONMENT

Pollution is one of the hazards of everyday life. The CEGB have their own pollution problems and this film shows in general terms the action taken to combat them.

1971.
Colour 22 mins. 16mm/35mm

HOW ELECTRICITY IS MADE
Describes the making of electricity for the nation's needs and its transmission in bulk to all parts of the country. Various fuels are used to make steam to drive generators. The principles are illustrated in the film. 1964.
Colour 21 mins. 16mm/35mm

HOW STEAM IS PRODUCED
Describes the production of steam in power stations using coal, oil and nuclear fuel. Animation is used extensively to show the complete sequence of operations, from the arrival of the fuel to the output of electricity. 1970.
Colour 18 mins. 16mm/35mm

NUCLEAR GENERATION
Illustrates the effects of nuclear power stations on the day-to-day life of the local community. It illustrates the functions of local liaison committees and gives an insight into the continual vigilance applied to safe operation of the stations. 1976.
Colour 17 mins. 16mm/35mm

The above films are available from:
THE CENTRAL ELECTRICITY GENERATING BOARD FILM LIBRARY
Sudbury House
15 Newgate Street
London EC1A 7AU
tel: 01-248 1202

THE CENTRAL FILM LIBRARY

BLACK SPOT TO BEAUTY SPOT
Stoke-on-Trent and its countryside inherited from its industrial past some of the worst environmental conditions in Britain. Its derelict land is now being transformed by imaginative and far-reaching plans: landscaping old colliery spoil-heaps, filling in disused pitshafts, creating parks and playing fields, footpaths, rides and nature reserves, and its formerly polluted streams are being dealt with by the largest water-purification programme in Europe. Bob Boote, anti-pollution and conservation authority, describes these developments but claims that in environmental matters there is no easy solution.
Colour 15 mins. £5.00

CLEAN AND PLEASANT LAND
The ever-increasing threat of oil spillage from tankers, the most notable being the Torrey Canyon disaster has resulted in the need to combat the menace of oil pollution on Britain's coastline. Research at the Warren Spring Laboratory has produced a variety of chemicals which effectively control and desperse sea-borne oil and beach pollution without harming marine life. The importance of planned defences is emphasised and a successful clean-up operation on the East coast is shown.
Colour 31 mins. £6.00

IT'S ALL MAN MADE
Environment is largely a matter of choice. We choose to pollute, to preserve, to raze or repair, to do something or to sit back. The river Trent, in its 128 mile journey to the sea, passes through almost every environmental problem which faces us.
'It's All Man Made', a film from the Department of Environment, presents its audience with evidence of past and present choosing as it follows the course of the Trent. It testifies to problems certainly, but also to effort and achievements.
There is now clean air over industrial Stoke, derelict land reclaimed, conflicting demands on a National Park successfully reconciled and Newark is facing up to the special problems of being an historic town. These are some of

the elements in a gently persuasive film made for general audiences.
Colour/sound 28 mins. 16/35mm
Also stills available.

THE WASTE OF WASTE LAND
With the coming of the Industrial Revolution the demand for raw materials rapidly increased resulting in the landscape often being scarred by dereliction, waste tips, abandoned workings and subsidence areas. Carefully planned schemes financed by Central and Local Government, as in Stoke-on-Trent's programme, have made realistic use of the dereliction to create a variety of recreation areas.
Colour 14 mins. £5 (hire)

Available from:
THE CENTRAL FILM LIBRARY
Government Building
Bromyard Avenue
Acton
London W3 7JB
tel: 01-734 5555

CLARKE CHAPMAN LTD.

INCINERATION - THE BURNING QUESTION
Shows another method of refuse disposal and pinpoints the national problem of 17 million tons of refuse needing to be disposed of annually.
Colour 30 mins.

Available from
CLARKE CHAPMAN LTD.
International Combustion Division
Refuse & Heat Recovery
Sinfin Lane,
Derby DE2 9GJ
tel: 0332 23223

CONCORD FILMS COUNCIL LTD.

AND ON THE EIGHTH DAY.....
Outstanding programme on the pollution of our environment, in four sections:

WATER: We all know about rivers, but the sea itself is being affected. Even with more advanced techniques of sewage disposal many problems remain, and industrial waste increases.

AIR: Even if the poisonous fumes could be eliminated there are the long-term effects of the building up of carbon dioxide which could have far-reaching effects on the life of the planet.

EARTH: Pesticides and chemicals applied to the soil are already causing concern in killing off wild life, but some fear that already the effects are disastrous and irreversible. The delicate balance on which life and our lives lives depend is being destroyed. Some American scientists, realising this, are being persecuted or at best ignored by big business interests who will not face these facts.

FIRE: Deals with pollution by radioactivity, not only used for weapons, but also for industry. Waste is stored in vast quantities and can leak out if there is an earthquake or explosion. A serious and challenging film on a subject of the most vital importance.
A Thames TV production, 1970.
Colour 60 mins. £10.00

BOOMSVILLE
Cartoon tracing the growth of a typical city, from a tiny settlement in the North American wilderness to the car-clogged metropolis that so many cities are today.
National Film Board of Canada 1968.
Colour 10 mins. £3.00

BRONCHITIS
Bronchitis is called the English disease, partly because of our climate. Three factors cause it: polluted air, working conditions (such as mining) and smoking. The

last is up to the individual: the connection is definitely proved. But are we doing enough about clean air? Many of our cities have no smoke restrictions, and even when such restrictions exist, nothing can be done about poisonous fumes which cannot be seen. Bronchitis is a very distressing illness which causes a very high number of deaths each year compared with other diseases. Could more be done to prevent it? Granada 'World in Action' Programme. 1965.
B/W 25 mins. £4.40

THE CITY
A series of films by the National Film Board of Canada, filmed in 11 countries under the title 'Lewis Mumford on the City'. 1963.
B/W Each part 28 mins. Each £4.60
(Each part is complete in itself)

THE CITY - HEAVEN AND HELL
The opposed natures - creative and destructive - of the city in history, the elements that created the first cities, and the forces that now threaten to destroy 'man's most precious collective invention'.

THE CITY - CARS OR PEOPLE?
An old but dangerously growing problem - how to make the city accessible for meeting and mixing without allowing transportation to make it congested and uninhabitable, as the motor car threatens to do.

THE CITY AND ITS REGION
History shows that cities thrive best when they live in harmony and balace with the countryside around them. How can this balance be maintained or restored in today's sprawling metropolitan regions?

THE HEART OF THE CITY
A study of the growing sterility, dullness and congestion that is destroying the vitality, variety and breadth that once made cities physically attractive and humanly creative.

THE CITY AS MAN's HOME
Slums, giant public housing complexes, mass suburbs, anonymous and bleak luxury apartments - almost everywhere in our cities communal standards of living are falling as personal standards rise. How did this happen and what can our cities do to improve communal living standards?

THE CITY AND THE FUTURE
In more and more regions of the world the inevitable and urgent choice must be made - low grade urban sprawl or a new kind of regional city. Prospects and ways to restore its role as the focus of man's highest achievement.

CITY LIMITS
What are the factors that make a city a pleasant place to live and work in, with its own character and life? Jane Jacobs examines the trends that are killing cities now, particularly the private car, mainly in North America, but we have lessons to learn here before it is too late. 1972.
Colour 30 mins. £4.40

CONSERVATION AND BALANCE IN NATURE
A comprehensive picture of man's relationship to his environment, and the inter-relationship of the living things themselves. Examples of various environments and different kinds of living things are shown, and also the use of pesticides and chemicals, and the film ends by stressing man's responsibility to use wisely his natural environment.
Colour 18 mins. £4.20

DEAD EARTH
Links the survival of our environment with those of corporate responsibility. Cites the use of

ecology destroying defoliants in South East Asia and elsewhere. Commentary by the noted ecologist Barry Commoner. Starts with a witty and explicit cartoon. 1971.
Colour 20 mins. £4.00

DON'T SPOIL OUR WORLD (Filmstrip)

A Colour filmstrip of paintings by schoolchildren in Ipswich about pollution - how it affects their lives, and all life. Includes a poem. 1973.
Colour 35 frames with text
Purchase price: £3.00

THE DRAG

Amusing and fast-moving cartoon about smoking, suitable for all audiences, including schools (and also film societies). A subtle knock at the cigarette advertisers and those who believe the advertisements. National Film Board of Canada. 1967.
Colour 9 mins. £3.00

ELEMENT THREE

The water supplies of the world cannot for long continue to slake the thirst of the land and of men unless in the near future hydrological work of considerable scope and variety is carried out. By means of a poetic quality that is sometime tragic, as well as through the information it provides, this film demonstrates the complexity and urgency of the problem. Produced by the National Film Board of Canada in co-operation with U.N.E.S.C.O. "A wonderful and beautiful film. Engenders responsibility in community - encourages careful use socially and industrially". - U.N.A. Branch. 1965.
Colour 45 mins. £6.60

THE ENERGY SERIES

ENERGY: THE DILEMMA

Energy growth pattern, past, present and future. Explores problems of supply and demand, depletion of fossils, fuels, our dependency. Will we run out of fuel soon? Will we ruin our environment in the process? Is the age of the car nearly over? U.S.A. 1974.
Colour 20 mins. £4.20

ENERGY: THE NUCLEAR ALTERNATIVE

Explores what fission power is, how it works and the safety of nuclear power stations. Can we afford to take this risk, and can we afford not to? U.S.A. 1974.
Colour 20 mins. £4.20

ENERGY: NEW SOURCES

There are better ways of obtaining power: solar panels, hot water geysers under the earth, harnessing the tides, fusion power. Introduces new research.
Colour 20 mins. £4.20

ENERGY: LESS IS MORE

What of the future? Can we cut down on our use of energy? Will this only put off the evil day; will we have to adopt a new way of thinking altogether? U.S.A. 1974.
Colour 18 mins. £4.20

ENVIRONMENT

The degrading of our environment is a major problem. However, the causes of this deterioration are complex and are closely bound to the strengths of a modern individual society: affluence, advanced technology and individualisation. This film probes beyond superficial rhetoric and shows that while such practices as high technology farming can be destructive to the land, the products of this farming are vitally needed. What balances must be struck? Can we preserve our environment and still hold on to our technology and life style? After posing these questions, this unusual and highly dramatic film is left open-ended. U.S.A. 1974.
Colour 28 mins. £6.60

FIRST MILE UP

Air pollution. An examination of the problem, with explantions of its causes and dangers, and comments by experts, including Dr. Linus Pauling. National Film Board of Canada. 1961.

B/W 30 mins. £4.40

FOR YOUR PLEASURE

A really delightful cartoon by Derek Phillips, on the growth of motorways and tall buildings. The advance of the concrete jungle on the beauty of the Suffolk countryside in Constable's famous landscapes. A humorous cartoon with serious undertones. 1970.

Colour 5 mins. £2.40

A FUNNY THING HAPPENED ON THE WAY TO THE GARBAGE DUMP

The problems of sewage and waste disposal, and some positive ideas for overcoming them, for instance in Paris where the refuse is burnt in furnaces which provide parts of the city with hot water. The importance of salvaging metals, and other ways of using waste are shown. The technology exists to conquer waste and pollution, but at what price? BBC TV. 1970.

B/W 51 mins. £6.60

I TRIED COTTON WOOL, BUT IT MADE MY EARS GO FUNNY

Do most of us really know the price that is being paid by people who live near the new great motorways and their junctions, for this "progress"? This film examines the impact of "Spaghetti Junction" (Gravely Hill intersection at Birmingham), on the inhabitants of that area. Made by John Morris, 1973.

Colour 30 mins. £6.00

IN A CLEANER, GREENER LAND
THE FACTS ARE THESE

A series for 15 year olds and over, approved by the Educational Advisory Council for I.T.A., and made by the Schools Department of Granada Television, 1973.

Starts with the industrial revolution, relating it to later pollution of air, water and land. The effects of smoke, effluent in rivers, and litter on the ground are shown, and some efforts by groups of people to combat them, such as direct action by young people in taking back non-returnable soft drink bottles to the manufacturers.

Colour 20 mins. £4.20

KEEPERS OF THE WILDERNESS

So many wild animals are in danger of extinction that scientists have to learn more about their habits to try to preserve them. Bears are branded, and have transmitters fixed to them so their movements can be traced, and birds are caught and ringed. Is there soon to be no place for animals in the world, if they don't directly serve man? National Film Board of Canada, 1972.

Colour 30 mins. £6.60

KING SIZE

It is aimed at youngsters - but every adult, smoker or not, will benefit from this advice to stay away from tobacco. This is an animation film, and so anything can happen, and does, including a visit to the kingdom of King Size where no smoking is forbidden. Assaulted on all sides by cigarettes or cigarette smoke, our young hero soon has had enough. Home once more, he is ready to do his bit against the menace. What he does is as amusing as the rest. National Film Board of Canada. 1968.

Colour 7 mins. £2.60

LET'S DISCUSS SMOKING

A straightforward discussion on the likely effects of smoking, in which a group of teenagers ques-

tion Dr. F.R. Wake, of Carleton University (Canada). Many aspects are mentioned, among them the problem of parents who smoke! National Film Board of Canada. 1964.
B/W 16 mins. £2.80

LIMITS OF GROWTH
The problem of our world points to disaster in the future. A group of influential academic and businessmen get together, with the help of a computer, to analyse the problems and find some solutions. It appears that all the issues (violence, pollution, starvation, population growth) are interlinked and it would be of no use to attack just one aspect. A powerful and stimulating film by Richard Broad who made "And on the Eighth Day", which shows the urgency with which we need to do something, and could help everyone to see more clearly the direction in which we should work to avert world chaos. Thames T.V. 1972.
Colour 60 mins £10.00

LITTLE MAN, BIG CITY
A cartoon which dramatises the plight of today's city dweller. The "little man" lives in a typical urban centre where poor planning, haphazard design and inadequate health controls have depleted him emotionally and physically. Beseiged by overcrowding, noise, pollution, lack of privacy and open spaces, and the hectic and uniform pace of living, even in the confines of his small apartment, he cannot escape the noxious effects of his surroundings. Made by Hungarian Film Studios for the World Health Organisation.
Colour 10 mins. £4.60

LONDON, UNIQUE CITY
Where other cities have grown upwards, London has ever increasingly edged her boundaries outwards into the Home Counties. This has been partly due to the denizen's desire to combine housing with areas of greenery. What methods can be used to solve the problem of London's sprawl?
B/W 30 mins. £4.60

A MATTER OF ATTITUDES
Pollution in Canada. A project to discover how much people are aware of pollution, and what they feel should be done about it. What is pollution? How does it affect this country? Who should be responsible for doing something about it? Useful for starting an enquiry into pollution. National Film Board of Canada. 1968.
B/W and Colour 30 mins. £4.60

MULTIPLY AND SUBDUE THE EARTH
Deals in considerable detail with man's misuse of his environment. Examples are shown of how man has failed to work in harmony with his surroundings, and the resulting pollution and environmental disaster. Useful not only for ecology but also General Studies and 'A' level work on the geography of the United States. An excellent film in all respects. Produced by National Educational Television, USA. 1970.
Colour 50 mins. £10.00

NUCLEAR WASTE IN THE IRISH SEA
What is the effect of pumping radio active waste into the sea? It had been thought that it remained in the sediment of the sea bed but now there are other theories; can we afford to take the risk? What sort of future are we making? Granada "World In Action" film, 1976.
Colour 30 mins. £5.60

THE PAVEMENT (BRUK)
Polish cartoon about a man who is covering the whole world with paving stones. He finally comes to the last tree, and realises too late what he has done. Shown at

Overhausen. 1972.
Colour 10 mins. £2.60

PERSISTENT AND FINAGLING

The true story of a pressure group (Stop: Society to Overcome Pollution) in Montreal. They are mostly women, who plan a project, and feel they need the support of a big-name personality only to wonder if this was a good idea when he agrees. (Persistent and finagling are his epithets for them). As much an examination of the members of the group as their actions. National Film Board of Canada. 1971.
B/W 60 mins. £5.00

POISONS, PESTS AND PEOPLE

The effects of widespread use of chemical insecticides, shown and discussed by experts. We have come to depend on these - perhaps too much, as Rachel Carson's "Silent Spring" pointed out - but life might be impossible now without them. Some experiments with new techniques are shown. National Film Board of Canada film. 1960.
B/W 60 mins. £6.00

POLLUTION SERIES

THE FIRST POLLUTION

This information survey of water quality management and improvement techniques examines the use of both classical and new methods of waste water treatment in various industries and towns in America. Both ways are designed to remove oil, acid and organic chemicals and so produce water that can be recycled and used for a variety of purposes. Other new techniques explained include the use of computers, using sludge as a resource and using microbes in the reclamation process. This film effectively demonstrates that water quality standards can be set and enforced and urges the public to act. 1966
Colour 26 mins. £6.00

THE SECOND POLLUTION

The pollution that affects us most personally is the pollution of the air we must breathe. Los Angeles provides a case history of a city that has worked for decades to reduce the air pollution from both stationary and mobile sources, and yet still has a serious problem today. Chicago is using new laws and strict enforcement to control sulphur oxide emissions produced in the burning of fossil fuels. Automobiles spit out hydrocarbons, carbon monoxide and nitrogen oxides, and current efforts are primarily focused on catalytic conversion to more acceptable materials and redesign of the internal combustion engine. 1966.
Colour 22 mins. £6.00

THE THIRD POLLUTION

Improved methods for handling 150 million tons of solid waste disposed of each year in the U.S.A. are explained, and examples given of a sanitary landfill in Los Angeles and an incineration plant in New York that not only burns 750 tons of water per day without causing air pollution, but has a waste heat recovery unit that generates power and converts salt water to fresh water. The problem of the disposal of livestock waste are also raised, and of the recycling and salvage of scrap metal, particularly cars, and new ways in which waste solids can be converted into gas and charcoal explained. U.S.A. 1966.
Colour 23 mins. £6.60

POPULATION AND POLLUTION

Short film linking these two vital subjects, and pointing out some ways in which the natural environment can be appreciated. Suitable for older school children upwards.

U.S.A. 1970.
Colour 18 mins. £4.00

RECYCLING

A filmed survey of some attempts to dig the U.S.A. out from under its own refuse. Skilfully proves that almost every form of solid wastes, from newspapers to spoiled peaches, could be rescued from mounting scrap heaps and turned into a high quality product. U.S.A. 1971.
Colour 21 mins. £3.20

RIVER WITH A PROBLEM

Water pollution. The Ottawa River is an example of what happens when a river is used as a dumping ground for city and industrial waste. Animation illustrates exactly what happens to water as it becomes polluted. Engineers, health authorities and civic officials voice concern over this increasingly urgent problem. National Film Board of Canada. 1961.
B/W 28 mins. £4.20

SMOKING AND HEALTH – A REPORT TO YOUTH

Is smoking worth the risk? How the trachea, bronchi and lungs work, and how they are affected by smoking, are shown by animation sequences, and the evidence about bronchitis, emphysema and lung cancer and their proved connection with smoking is set out, especially as these affect young people.
Colour 13 mins. £3.60

SMOKING – IT'S YOUR CHOICE

A factual film showing the actual harm smoking can do – emphysema, cancer of the lungs or larynx, heart trouble, etc., yet young people continue to smoke – why? Some of the answers are given: the others all do, to look grown up. An open-ended film to start discussion. U.S.A. 1971.
Colour 15 mins. £3.60

THE STRIPPING OF APPALACHIA

Strip coal mining is being carried on in the Appalachian area of America on a large scale, with no consideration for human or animal inhabitants. A British company is largely responsible. Granada "World in Action" programme. 1972.
Colour 30 mins. £6.60

THAT'S THE PRICE

Pollution and prosperity often go hand in hand, and this film is a sensitive record of what happened when a multi-million company came to a derelict mining area in British Columbia to operate open cast mining on a scale never before attempted anywhere. The effect on the topography of this very beautiful area, and more particularly on the people who lived near and had to move are tellingly shown. One old man, who had been squatting illegally, surveys the ruins of his home after it had been bulldozed by the company. Objectively, one knows he should not have been there, but seeing his anger, frustration and utter bewilderment, one knows this sort of thing ought not to be done to a person. Prosperity was brought back to the neighbourhood, but was the price of it too high? National Film Board of Canada. 1971.
Colour 40 mins. £8.80

WHERE THERE'S SMOKE

A number of amusing cartoon spots making the point that smoking is harmful and stupid. Suitable for children especially. National Film Board of Canada. 1972.
Colour 14 mins. £3.50

WHO STOLE THE QUIET DAY?

Noise – what effect does it have on us? We are increasingly exposed to high noise levels, which we cannot shut out as we can light with our eyes. Shows how the ears work, and how hearing loss occurs, and the other health problems

caused by loud noise. Is there anything we can do to improve the situation? Suitable for most age groups. U.S.A. 1973.
Colour 16 mins. £3.80

The above films are all 16mm. Prices quoted are for one-day hire charge. Each extra day is charged at one quarter of the figure given.

Available from:
CONCORD FILMS COUNCIL LTD.
Nacton
Ipswich
Suffolk IP10 0JZ
tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

THE AGE OF REASON

Sponsored by ten member countries of the International Union of Producers and Distributors of Electrical Energy (UNIPEDE). The age of Reason shows that the electricity supply industries of Europe are conscious of environmental problems, and actively contribute to the maintenace of the quality of life. The film is intended for general audiences, and a touch of humour has been introduced in certain sequences.
Colour/sound 26 mins. 16mm

A BREATH OF SPRING

If the internal atmosphere is too hot or humid, comfort, concentration and overall efficiency suffer. The film explains how easily packaged air conditioning blends with decor and automatically monitors and controls comfort continually, summer and winter.
Colour/sound 18 mins. 16mm/8mm

ELECTRIC VEHICLES - WHAT ARE THE FACTS?

Every morning milk arrives quietly on the doorsteps of British homes with no fumes or fuss.

This film shows numerous examples of electric vehicles being used in hospitals, commerce, industry and on the road. It includes the latest electric car being driven around London and electric tractors at airports and hovercraft terminals.

The film is not so much about what electric vehicles do now but about the benefits that would be obtained from their future use.
Colour/sound 20 mins. 16mm

IT'S EASY WITH HINDSIGHT

For much of the 20th century the environment of our cities has been dominated by changing styles in office buildings. It is easy with hindsight to criticise the results.

In this film, Professor Alex Hardy of the University of Newcastle-upon-Tyne examines examples of existing buildings in London and then takes us to Aberdeen and the new Grampian Regional Council office building where we see the design team in action.
Colour/sound 27 mins 16mm

MAKE ROOM WITH ELECTRICITY

This film shows how electric appliances and services simplify home modernisation, make the most of local authority grants and provide amenities that are second to none in cleanliness and convenience.
Colour/sound 24 mins. 16mm/8mm

A NEW SCHOOL FOR EASTERGATE

Eastergate Primary School, near Chichester, is the first of its kind - a school built according to the principles of Integrated Environmental Design.

The school is all-electric using warm air heating in conjuntion with a specially designed ventilation system. High standards of insulation have been incorporated making the building an effective climate modifier and cutting down on running costs.

Colour/sound 25 mins. 16mm/8mm

"THAT'S ELECTRIC IRON, JOE"
Joseph Taplow worked in the foundry for fifty years. Fifty years of coke, sweat and tears. But things have changed. Joe's ex-apprentice, Albert Markby, runs the iron foundry now and he wants to show Joe his modern methods of electric melting.
The film shows how it is now.... with accurate control, better working conditions, high profitability and best quality iron being produced from cheaper materials in the melt.
Colour/sound 22 mins. 16mm

The above films are all available on free loan from:
THE ELECTRICITY COUNCIL, FILM LIBRARY
30 Millbank
London SW1P 4RD

Films as indicated are available in 8mm. These can be obtained on free loan direct from:
BARRY WILES FILMS.
Screen House
135 Borden Lane
Sittingbourne
Kent ME10 1BY

FIELD STUDIES COUNCIL

THE HIDDEN WORLD
Shows work in progress at the nine field centres and emphasises the delicate balance of Nature. Secondary school upwards.
Colour 19½mins. 16mm

Available from The Secretary
FIELD STUDIES COUNCIL
9 Devereux Court
Strand
London WC2R 3JR
tel: 01-583 7471

GATEWAY EDUCATIONAL MEDIA

BIOLOGICAL EQUILIBRIUM
Whenever man interferes with the long established order of Nature, unintentionally or deliberately, he starts a long chain of changes.
Colour/sound 12 mins. 16mm
£4.00 per day

OF BROCCOLI AND PELICANS AND CELERY AND SEALS
Pesticides used in agriculture are shown to be carried by the natural land drainage into rivers, and finally to the sea. Contaminated fish are eaten by birds, animals and men. DDT derivatives are toxic, stable for up to 20 years and they accumulate in the fatty tissues of all living things.
Colour/sound 29 mins. 16mm
£5.65 per day

The above films are available for hire from:
GATEWAY FILM HIRE LIBRARY
15 Beaconsfield Road
London NW10 2LE
tel: 01-451 1127

GUILD SOUND & VISION LTD.

THE COAL GATHERERS 171 2913-2
Production, restoration and conservation are seen working together in this film showing the process of mining by opencast methods at Radar North, Widdrington, Northumberland, one of Britain's biggest operations of its kind. The whole operation of coal extraction is programmed in a series of 100ft wide 'cuts', the waste from each being dropped into the void made by its predecessor. But always the good soil is set aside. Already 900 acres - almost half the total site - have been brought back to agricultural use. On land from which the coal has been won, corn is now harvested, cattle graze and trees grow.
Not available to Primary and Junior schools.
Derek Crouch (Contractors) Ltd.
Colour 22 mins.

A LOAD OF OLD RUBBISH 300 7368-4
It is the job of the London Borough Councils and the Greater London Council to get refuse safely away from London's streets and homes and dispose of it to the best advantage, salvaging and recycling where possible, and at all times protecting our environment and improving it by creating new land out of our load of old rubbish.
This film takes a lively look at London's refuse disposal, past and present, and traces the history from the days when rubbish was thrown from the windows ('gardez loo') and describes today's sophisticated methods.
Note: This film is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, The County Hall, London SE1.
Colour 26 mins. £3.30 + VAT

PROTECTION OF NATURE:
REPORT FROM SWEDEN 300 3965-3
This is the English version of K.H. Scheibenflug's film 'Umwelt Probleme-Schwedish Gelost' and shows how the current environmental problems, such as water purification, are being overcome.
The Swedish Institute.
Colour 30 mins. £3.30 + VAT

SOMETHING CAN BE DONE ABOUT WATER
185 2603-3
Everywhere the population is increasing, especially in the industrial areas and along the big rivers, and the disposal of waste is a major problem. Life is impossible without water and our rivers are suffocating and dying. Although there is no complete cure for this complicated problem, one remedy is flocculation agents, which accelerate the deposition of solids and facilitate for dehydration of sludge. This film shows the use of Sedipur for the treatment of industrial waste water and municipal sewage.
17 mins.

SPOTLIGHT ON BASF - A BETTER ENVIRONMENT 350 7704-1
The film spotlights the means to find answers to the environmental problems of our time: how to protect the environment by providing clean air, noise suppression and preventing water pollution.
Energy supplies remain a vital question. BASF has its own coalmine, is extensively exploiting German oil and gas fields, and exploring for new reserves.
BASF United Kingdom Ltd.
Colour 30 mins.

TAKEN FOR GRANTED 300 7457-6
Every day nearly 1,000 million gallons of sewage flows down the sewers to be received by the Thames Water Authority. It is treated, and the harmful matter made harmless: 1,000 million gallons of clean water is poured into the Thames. Few of us ever think about the miles of sewers beneath our feet, taking sewage to the treatment works. This film shows the story of sewage treatment very simply, stage by stage, and gives a fascinating insight into a silent service that is all to often 'taken for granted'.
The film is available on 'free loan' to anyone living in the following counties which are within the Thames Water Region: Kent, Essex, Hertfordshire, Bedfordshire, Buckinghamshire, Oxfordshire, Gloucestershire, Wiltshire, Berkshire, Hampshire, Surrey, Sussex, Middlesex.
Thames Water Authority
Colour 15 mins. £3.00 + VAT

TRASH TO TREASURE 233 7330-2
This film deals with the need for efficient, special-purpose machines performing recommended steps

in the most modern method for practical refuse disposal. The benefits of this method are depicted through the conversion of normal urban waste lands into such useful developments as parks, recreation areas, airports, playgrounds etc.
International Harvester Co. of Great Britain Ltd.
Colour 18 mins.

A TURN OF THE TAP 255 7514-9
This film shows how one of the new regional Water Authorities serves the community. Water supply for house and industry, sewerage and sewage disposal, angling and the recreational use of water and combating water pollution are among the topics covered. The start of the giant Kielder Water Scheme in Northumbria, and stages in a major clean-up of the River Tyne are illustrated. A film for the layman, produced by the Northumbrian Water Authority. Commentary by Richard Baker.
This title is also available as a Sony video cassete recording on free loan. Applicants wishing to borrow the cassette should clearly note their requirements and quote number 500 7514-9.
Northumbrian Water Authority
Colour 22 mins.

THE YELLOW TRAIL 189 7165-8
A yellow trail emitted by a factory chimney became a symbol; what can industry do for environmental protection? Hoechst turned the problem into a programme. Research workers developed installations that helped effectively to purify industrial waste gases and effluent. This created prototypes that were of significance not only to the chemical industry. Hoechst is not resting on its laurels. Attempts are being made to develop new production techniques whose aim is 'cleaner' manufacturing processes so that pollution of the environment is prevented before it can happen.
Hoechst U.K. Limited
Colour 36 mins.

The above films are available from:
GUILD SOUND & VISION LTD.
Woodston House
Oundle Road
Peterborough PE2 9PZ
tel: Peterborough (0733) 63122

HODGKINSON BENNIS LTD.

THE PROPERTIES OF COAL
Shows how the properties of coal vary according to the areas where it is mined, and how these characteristics affect its behaviour during combustion. The film gives an explanation of swelling number and shows how various types of coal suit different types of stokers.
Colour 20 mins. 16mm £3.00

Available from:
HODGKINSON BENNIS LTD.
Little Hulton
Worsley
Manchester M28 6SS
tel: 061-790 4411/9

ICI FILM LIBRARY

THE CHOICE
The film's main themes are earth, air and water. It concentrates on what is being done and what can be done, to preserve the environment. Science and technology have already provided most of the answers. Co-operation between industry and the community has already demonstrated that it can yield worthwhile results. Future success will depend on continuing investment, and, above all, a wider, more vigorous co-operation.
Colour/sound 29 mins. 16mm

SOMETHING TO SING ABOUT
The problem of aerial pollution

tackled by ICI's Agricultural Division at Billingham on Teesside. The achievement of a 98 per cent reduction of sulphur dioxide, grit and dust.
Colour/sound 12 mins. 16mm

The above films are available from:
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Thames House North
Millbank
London SW1P 4QG
tel: 01-834 4444

LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY

AIR POLLUTION
SOURCES & EFFECTS

The sources of the five contaminants responsible either singly or in combination for most air pollution are detailed, and their effects on people and the environment examined (sulphur dioxides, carbon monoxide, nitrogen oxides, hydrocarbons and lead). Overall the film puts pollution in historical perspective and shows what information is required and what action needs to be taken continually to improve the situation.
Colour/sound Approx. 25 mins. 16mm

THE SCIENCE OF THE SITUATION

The nature and behaviour of particles in air is examined since it is the principles behind the physical laws governing this behaviour which are used to design gas-cleaning apparatus. Scientific and technical; suitable for VI forms, industry and Local Government personnel.
Colour/sound 25 mins. 16mm

METHODS OF CONTROL

This film examines how intelligent legislation concerning air pollution must avoid serious economic damage to industry or the community, yet recognise the need for control. Methods of control examined are process modifications, pollutant removal and pollutant dispersion. Meteorological factors are illustrated and the special interest of vehicle pollution is acknowledged and methods of tackling the problem are discused.
Colour/sound 25 mins 16mm
Charge per film: £15 for two days. Half price for Further Educational establishments. £2.50 for schools.

NOISE POLLUTION:
NOISE AND PEOPLE

Noise is unwanted and often unnecessary sound. This film looks at situations: leisure work and domestic, in which noise occurs, showing the effects it has on people. It highlights the present situation and future trends concerning the number of people affected by noise. The nature of sound is defined, and the complexity of real life sounds is shown on the oscilloscope and spectrum analyser, from which the differences between pure tones, harmonic and random sounds are seen.
A description of the mechanism of the ear leads into definitions of loudness and intensity. The use of sound level meters and their relation to the logarithmic decibel scale is explained. The influence of the non-linear frequency response of the ear on the perception of sound is illustrated.
Finally, this information is used to show how hearing loss occurs, and how it is measured with an audiometer, stressing the irreversability of ear damage.
Colour/sound Approx. 25 mins. 16mm

THE SCIENCE OF SOUND

Some knowledge of the physical principals which govern the generation and behaviour of sound is required before problems of noise can be analysed or solutions for

noise control proposed. Even before this is done it is necessary to know how sound is measured. All sounds are associated with a quantity of power which can be related to the decibel scale. This is explained in detail.
Sound is generated by a source which may be classified into one of three basic types. The importance of the coupling between vibrating source and the sound wave motion with the influence of resonances is shown. What is heard has happened by the time it reaches the ear.
A major influence is the diffusion of sound energy with distance. Other effects are caused by air absorption, wind, temperature, obstacles and the nature of the surfaces the noise encounters. Illustrations are given of the causes and effects of distance, diffraction, refraction, reflection and absorption on noise.
Colour/sound Approx. 25 mins. 16mm

THE CONTROL OF NOISE
Effective noise reduction may be obtained using one or more of the following methods. Control at source, by distance, barriers, insulation and personal protection. Since many sound sources are often present in one machine it is necessary to rank them in importance and deal with the loudest first. This can be done by isolating components or driving them independently. Control can be achieved by cutting down the energy involved in the process (lower speeds) or reducing the coupling between energy source and sound radiating surface. Where enclosures are used mass provides insulation but the sound energy trapped within the enclosure must be absorbed. Out of doors, distance provides the simplest means of noise control, but the cost of land requires a compromise in which the use of barriers can be of assistance. This problem should be tackled at the initial planning stage.
With very high noise levels personal protection by ear plugs, ear muffs, etc., may be the only practical solution to avoid hearing damage in the short term, before processes can be changed fundamentally to reduce the noise output.
Colour/sound Approx. 25 mins. 16mm
Hire charge per film: two days £15.00, one week £24.00

Available from:
Centre For Extension Studies
LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY
Loughborough
Leicestershire LE11 3TU
tel: 050-93 67494

MOTHERWELL BRIDGE TACOL LTD.

NO TIPPING
Illustrates the "System Dusseldorf" approach to refuse disposal and shows the threat to clean air posed by traditional methods of refuse disposal.
Colour 14 mins 16mm

Available from:
MOTHERWELL BRIDGE TACOL LTD.
Green Dragon House
64-70 High Street
Croydon
Surrey CRO 1NA
tel: 01-686 6917

NATIONAL AUDIO-VISUAL AIDS LIBRARY

The following films are produced by Encyclopaedia Britannica.

CONTROVERSY OVER INDUSTRIAL POLLUTION - A CASE STUDY
1974 Secondary
Colour/sound 17 mins. 16mm

THE EARTH: MAN'S HOME
1970 Infant and Primary
Colour/sound 10 mins. 16mm

THE EVERGLADES - CONSERVING A BALANCED COMMUNITY
1968
Colour/sound 11 mins. 16mm

THE GARBAGE EXPLOSION
1970
Colour 16 mins. 16mm

HOUSE OF MAN - OUR CROWDED ENVIRONMENT
1968
Colour/sound 11 mins. 16mm

NOISE - POLLUTING THE ENVIRONMENT
1971
Colour/sound 15 mins. 16mm

THE POPULATION PROBLEM
1964
Colour/sound 13 mins. 16mm

PROBLEMS OF CONSERVATION - AIR
1968
Colour/sound 15 mins. 16mm

PROBLEMS OF CONSERVATION - FOREST AND RANGE
1969
Colour/sound 14 mins. 16mm

PROBLEMS OF CONSERVATION - MINERALS
1969
Colour/sound 16 mins. 16mm

PROBLEMS OF CONSERVATION - OUR NATURAL RESOURCES
1970
Colour/sound 11 mins. 16mm

PROBLEMS OF CONSERVATION - SOIL
1969
Colour/sound 14 mins. 16mm

PROBLEMS OF CONSERVATION - WATER
1969
Colour/sound 16 mins. 16mm

PROBLEMS OF CONSERVATION - WILDLIFE
1970
Colour/sound 13 mins. 16mm

TREES AND THEIR IMPORTANCE
1966 Infant and Primary.
Colour/sound 11 mins. 16mm

The above films are available for hire (charges on request) from:

NATIONAL AUDIO-VISUAL AIDS LIBRARY
Paxton Place
Gipsy Road
London SE27
tel: 01-670 4247

N.C.B. FILM LIBRARY

For General Audiences:

CLEAN AIR AT HANDSWORTH
This film, a section of 'Welcome Home' describes what happens when a new smoke controlled area is created, and what the householder has to do. It shows three conversions to different types of smokeless solid fuel appliances, quoting the costs, the Local Authority grants, and also, in one case, the National Coal Board's Housewarming Plan. 1967/72.
Colour/sound 8 mins. 16mm

CLEAR THE AIR
A new design of sequential charging makes possible the loading of coke ovens with virtually no disturbance to the environment. Working conditions on the ovens are vastly improved. 1976.
Colour 11 mins. 16mm

CHIMNEYS
This film includes a brief history of chimneys and fireplaces, chimneys being built into new houses, manufacture and installation into existing houses of prefabricated chimneys, laboratory testing and research into design. 1975.
Colour 21 mins. 16mm

DISTRICT HEATING
A report on the domestic and international developments in heating buildings from a central boiler house. Contributions in the argument are made by economist E.F. Schumacher, heating engineer Ernest Haseler, and expert on hypothermia, Dr. Geoffrey Taylor. 1972.

Colour/sound 24 mins. 16mm

INCINERATE - WITH COAL
Nottingham Corporation incinerate the city's rubbish to fuel the biggest district heating scheme in this country. Coupled with a coal-fired heat station, the scheme heats redevelopments in the city centre, several housing areas and existing buildings. 1973.
Colour/sound 26 mins. 16mm

LIVING FIRE
An introduction to the many forms of heating and the great variety of appliances that are possible using solid fuel. 1973.
Colour 5½ mins. 16mm

LOVELY AND WARM
The unexpected appearance of a Roomheater at the roadside, leads P.C.207 to investigate and he chooses one for his own home. 1973.
Colour 5½ mins. 16mm

MEADOWGATE - THE FIRST SIX MONTHS
A first report on the development of an opencast coal site, with the eventual aim of the creation of a new recreation area. 1977
Colour 14 mins. 16mm

NOT JUST FOR BURNING
RESEARCH INTO COAL AT C.R.E.
This is a picture of the research and development carried out at the NCB Coal Research Establishment into cheaper and cleaner ways of burning coal for domestic and industrial use, into the development of a variety of plastics for the building industry, into methods of blending high volatile coals to make coking coals and into future uses of coal. 1971, revised 1974.
Colour 25 mins. 16mm

RESTORATION OF LAND AFTER OPENCAST COAL MINING
The film provides a practical example of how land is restored to agricultural use after opencast mining - conservation in action. 1973.
Colour/sound 19 mins. 16mm

SFAS - SOLID FUEL ADVISORY SERVICE
This film, commentated by Robert Dougall, describes the services provided by the Solid Fuel Advisory Service and the training given to their representatives on all aspects of domestic solid fuel heating. 1975.
Colour 16 mins. 16mm

TOMORROW'S COAL
Austin Mitchell, television presenter, examines the prospects of the projected Selby coalfield, and explores the attitudes towards it of some of the people of the Plain of York. Expert opinion is enlisted to resolve the problems which lie ahead, and the chairman of the Board sums up. 1974.
Colour/sound 27 mins. 16mm

WELCOME HOME
Demonstrates the modern equipment available for burning solid smokeless fuels, and the range of these fuels available. The film also describes the Clean Air Act, how it works, and how solid fuel meets its requirements. (The Solid Smokeless Fuel Federation publication 'Clean Air is for You' is recommended for distribution to audiences of the film). 1968.
Colour/sound 22 mins. 16mm

NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London, SW1X 7AE
tel: 01-235 2020
telex: 882161

NATIONAL SOCIETY FOR CLEAN AIR

HORSEPOWER AND HYDROCARBONS
The California Motor Vehicle Control Board explain the nature and extent of emission problems from the motor car. The alternatives to the petrol driven car are ex-

amined, as are methods of reducing levels of emission. The first film to approach all aspects of the problem fully. 1968.
Colour 22 mins. 16mm

Available from:
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136 North Street
Brighton BN1 1RG
Sussex
tel: Brighton (0273) 26313

RANK AUDIO-VISUAL LTD.

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tel: 01-568 9222

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY

A film on Sheffield's victory over smoke.
The 25-minute documentary explains the City's vigorous application of the Clean Air Act, making Sheffield the first major industrial city in Britain to be covered throughout by smoke control regulations.
Entitled "Clean Air City", the film includes shots of the dirty pre-war Sheffield, and illustrates how, since 1959, the City has progressed steadily to a situation in which every building - every house, every factory - is banned by law from emitting smoke. In addition to explaining the Corporation's 13-year clean air programme, the film includes interviews with civic and industrial leaders, and members of the general public, to illustrate the thinking behind and the results of air pollution control - better health, improved plant life, less industrial absenteeism, and a higher quality of life.
Colour 25 mins.

Available from:
SHEFFIELD PUBLICITY OFFICE
Yorkshire Bank Chambers
Surrey Street
Sheffield S1 1LP
tel: (0742) 734068

SHELL FILM LIBRARY

DEEP SEA ENDEAVOUR

Looks at the problems posed by the search for oil offshore and explains many of the techniques for the shallow waters of the Continental Shelf and in deeper, rougher waters beyond the capacity of the jack-ups. Semi-submersible drilling platforms and the drill ship Seco 445 are featured. 1973.
Colour 26 mins. 16mm

THE ENERGY WE NEED

The film presents the energy resources in economic terms. It is a question of shifting from using capital to income in meeting our energy needs. Sun, winds and waves are all being studied as long-term potential sources. For the present and the immediate future the answer lies with coal, nuclear energy and oil from deep offshore waters. 1976.
Colour 14 mins. 16mm

ENVIRONMENT IN THE BALANCE

The film shows how geological, topographical and social develop-

ments in Britain have helped to shape our environment and discusses the problems of industrial expansion, population growth and pollution. Given the technological ability to safeguard the future, the issues depend on us all, as individuals. 1970.
Colour 30 mins. 16mm

LOAD ON TOP

Made in association with the British Advisory Committee on Oil Pollution of the Sea, the film describes how tankers using the 'load on top' system can minimise marine pollution. The oil is separated from the water and retained on board in a storage tank while the water is discharged. 1967, re-edited 1976.
Colour 14 mins. 16mm

OFFSHORE

Locating oil is one thing, producing it is another. There is no working to a set formula in offshore operations; each undertaking has to match its particular environment and the film shows solutions to producing oil from various locations and, most recently, from the North Sea. 1977.
Colour 26 mins. 16mm
(Also available on video-cassette)

OIL

How oil was formed; where it lies; the search for it by geologists and geophysicists; the drilling of wells to extract it; its transport and its processing in the refinery into many products. 1971.
Colour 18 mins. 16mm

THE RIVER MUST LIVE

River pollution and how it can be overcome by the treatment of urban and industrial wastes. Filmed on the Continent. An unpleasant subject treated sympathetically and practically with splendid photography. 1966, re-edited 1976.
Colour 21 mins. 16mm

The above films are available from:
SHELL FILM LIBRARY
25 The Burroughs
Hendon
London NW4 4AT
tel: 01-202 7803

UNIVERSITY OF SALFORD

DUST SAMPLING IN DUCTS AND CHIMNEYS

This film is based on two articles published in the magazine 'Environmental Health' for January 1971 by Dr. D.F. Ball and Mr. D.L. Griffiths of Salford University.
The film describes the theory and illustrates the practice of dust sampling, showing both the conventional method and the B.C.U.R.A. cyclone method. It is intended for people who have no previous experience of these techniques.
B/W 52 mins. 16mm optical sound track £10.00 (hire)

Available from:
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Salford
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WATER POLLUTION
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*WASTE AND RE-CYCLING
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by Mary Campbell
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Available from:
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143 Chatham Road
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tel: 01-223 3457

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Department of the Environment, 161 Davey Street, Hobart, Tasmania 7000

Environment Protection Authority, 232 Victoria Pde., East Melbourne, Victoria

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Centre Interprofessionnel Technique d'Etudes de la Pollution Atmosphérique (CITEPA) 28 rue de la Source, 75016 Paris

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Centre d'Etudes et de Recherches de Charbonnages de France (CERCHAR) Boite Postale No 27 - 60103 CREIL

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2.Centre Interprofessional Technique d'Etudes de la Pollution Atmospherique (CITEPA), 28 rue de la Source 75016 Paris
3. Comité National d'Action pour l'Assainissement de l'Atmosphère (CAPA), 54 avenue Marceau 75008 Paris

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Institut für Technische Physik der Frauenhofer-Gesellschaft, Königstr. 70/74, 7000 Stuttgart-Degerloch. Director: Prof. Dr. Ing-Goeele

International Union for Conservation of Life (IUCL) Secretariate: Institut für Biologie und Lebensschutz, 6229 Schlangenbad-Georgenborn

Landesinstitut für Arbeitsschutz und Arbeitsmedizin, Kaiserallee 61, 7500 Karlsruhe

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Ministerium f. Arbeit, Gesundheit u. Soziales des Landes NRW 4 Düsseldorf 1, Postfach 1134

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Silikose-Forschungsinstitut der Bergbau-AG, Medizinische Abteilung, 4630 Bochum, Hunscheidtstr. 12

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2) Prof. Dr.-Ing. Heinrich Schackmann, IUAPPA-President 1970/74
3) Dipl.-Ing. Norbert Endell, Secretary
4) Dr.-Ing. Klaus Grefen, Dep. Secretary

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Bhabba Atomic Research Centre, Health Physics Division, Trombay, Bombay

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All-India Institute of Hygiene & Public Health, Section of Physiological & Industrial Hygiene, Calcutta

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ILVA Society, Via Corsica 4, Genoa

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Instituto di Ingegneria Sanitaria del Poletecnico di Milano, Piazza Leonardo da Vinci, 32, 20133, Milan

Instituto Superiore di Sanità, Viale Regina Elena 299, Rome

N.A.N.S. (Union of Nations for Fight against Noise and Smog), Belvedere Golfo Paradiso 49-16036-Recco-Genova

Stazione Sperimentale per i Combustibili, Viale De Gasperi 3, San Donato Milanese, Milan

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*Osaka Institute of Hygiene, 38 Kitaogimachi, Kita-Ku, Osaka

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*National Society for Clean Air, 8-10 Civic Centre, Senglea

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Asociacion Mexicana Contra la Contaminacion del Agua y del Aire,
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Council for Air Pollution, Ministry of Health and Environment, Dokter Reyersstraat 10, Leidschendam

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Environmental Health Division, Municipal Health Service, Baan 170 Rotterdam

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National Institute of Public Health, P.O.B.1, Bilthoven

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Norwegian Institute for Air Research,
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SINTEF avd. 21, 7034 Trondheim -
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Norsk Forening for Bekjempelse av
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Asociación Peruana Para la Prevención
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del Aire, Casilla Postal 11246,
Lima 14, Peru

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The Ministry of Administration,
Local Economy and Environment Protection,
Warsaw 02-056, Fittrowa
57

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Group of the Council for Scientific
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National Association for Clean
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Stockholm

Swedish Meteorological and Hydrological
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AB Bahco, Fack, S-19901 Enköping 1

AB Svenska Flåtfabriken, Fack,
S-10460 Stockholm

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CH - 3003 Berne

Schweizerische Vereinigung für
Gesundheitstechnik (SVG), Postfach
305, CH - 8035 Zurich

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Air Pollution Control Association,
P.O. Box 2861 , Pittsburgh, PA
15230

Bituminous Coal Research Inc., 350
Hochberg Road, Monroeville, PA
15146

U.S. Environmental Protection
Agency, Waterside Mall, 401 M
Street, S.W., Washington, D.C.
20460

also:
Research Triangle Park, North
Carolina 27711

Other U.S. Governmental Air Pollution Agencies and individual State Agencies are listed in an annual Directory published by the Air Pollution Control Association in co-operation with the U.S. Environmental Protection Agency. A copy of this Directory is available at the library of the National Society for Clean Air.

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*Asociación Uruguaya Contra la Contaminación del Aires, Calle Colonia 1422, P.6, Ap. 601 Montevideo, Uruguay

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*Institute of Communal Hygiene,
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Medical Control Committee on Air Pollution, State Medical Commission, Moscow

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THE UNITED NATIONS ECONOMIC
COMMISSION FOR EUROPE
Environment and Human Settlements
Division, Palais des Nations,
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*Entry taken from 1976 NSCA Year Book, as no reply received from enquiry

THE INTERNATIONAL UNION OF AIR POLLUTION PREVENTION ASSOCIATIONS

President: Dr. J. Rispoli of the Asociacion Argentina Contra la Contaminacion del Aire

The International Union was originally established in 1965 with six founder members - Argentina, France, Great Britain, Japan, United States of America and West Germany. The Union consists of non-governmental organisations only and its primary functions are to promote collaboration and the exchange of information on air pollution and environmental problems and to organise, through its member associations, international congresses. The first congress of the Union was held in London in 1966; the second International Congress was held in Washington D.C., U.S.A., in December 1970, and the third International Congress in Dusseldorf, Federal Republic of Germany, in October 1973. The fourth Congress was held in Tokyo, in May 1977.

Since its inception in 1965 the I.U.A.P.P.A. has grown to fifteen full corporate members and four affiliate members.

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*Entry unconfirmed

List compiled as at April, 1977

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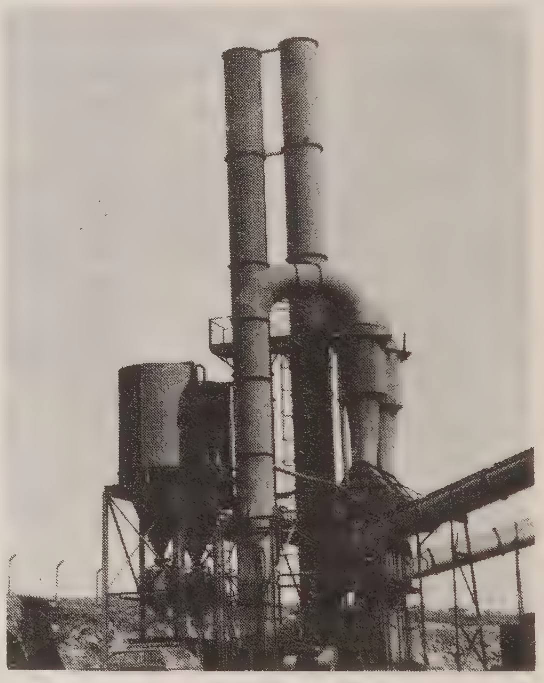

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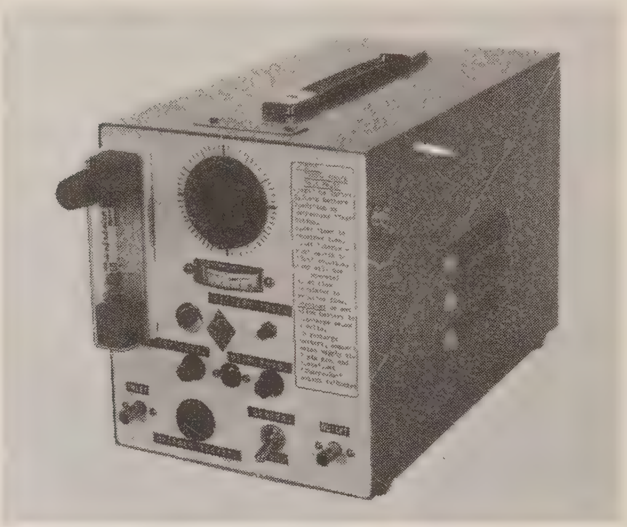
Electric resistance furnaces (450°C to 1750°C) in standard styles and sizes and also 'specials' to meet individual requirements for pottery glass annealing and decoration, stained glass, enamelling, laboratory processes, wire annealing, heat treatment etc.

CHARLES AUSTEN PUMPS LTD.
100 Royston Road, Byfleet,
Weybridge, Surrey KT14 7PB
tel: Byfleet 43224/5
telex: 928368
telegrams: Capumps Byfleet



The F.I. unit illustrated above is normally used with an approved range of sampling devices for taking a quantitative sample of an industrial atmosphere for subsequent analysis. Manufacturers of a range of diaphragm pumps covering flow rates from 0.5 to 70 litres per minute.

Further details from Charles Austen Pumps Ltd.

CLEERBURN LTD.
1 High Street, Slough SL1 1DY
tel: (0753) 26764
telex: 848314A/B CHAMCOM SLOUGH
A&G

INDUSTRIAL INCINERATORS

Cleerburn Incinerators are designed to comply with the Clean Air Act and are made to British Standard 3813. Cleerburn models range from 10 cu.ft. to 120 cu.ft. from simple M.S.P. construction to Insulated and Refractory lined models with Primary and After Burners. There is a Cleerburn for every waste problem and Heat Recovery requirement.

COALITE & CHEMICAL PRODUCTS LTD.
P.O. Box No. 21, Chesterfield,
Derbyshire S44 6AB
tel: (0246) 822281/9
telex: 54250

Coalite & Chemical Products Ltd. manufacture "Coalite" smokeless coal and are Britain's largest independent producer of solid smokeless fuel for open fires, room-heaters and boilers.

The Company has three production works in Yorkshire and also one at Bolsover which is linked to "Coalite's" own refinery. "Coalite's" annual production capacity is over two million tons.

CONCEPT CLEANING EQUIPMENT (INTERNATIONAL) LTD.
Holwood House, 24 Holwood Road,
Bromley, Kent.
tel: 01-464 0621/2
telex: 896343

Total or Partial Reclamation, Filtration and Recycling Systems, specifically designed for handling effluent from Car, Bus and ~~Train~~ Truck washing installations using manual or automatic equipment, hot or cold water pressure cleaners or similar devices, and effluent discharge from Garages, Service Stations, De-Waxing Plants, Transport Depots and similar installations.

DUST CONTROL EQUIPMENT LTD.
Thurmaston, Leicester LE4 8HP
tel: (0533) 696161
telex: 34500 DUST G
Telegrams: Dust Leicester Telex

DCE

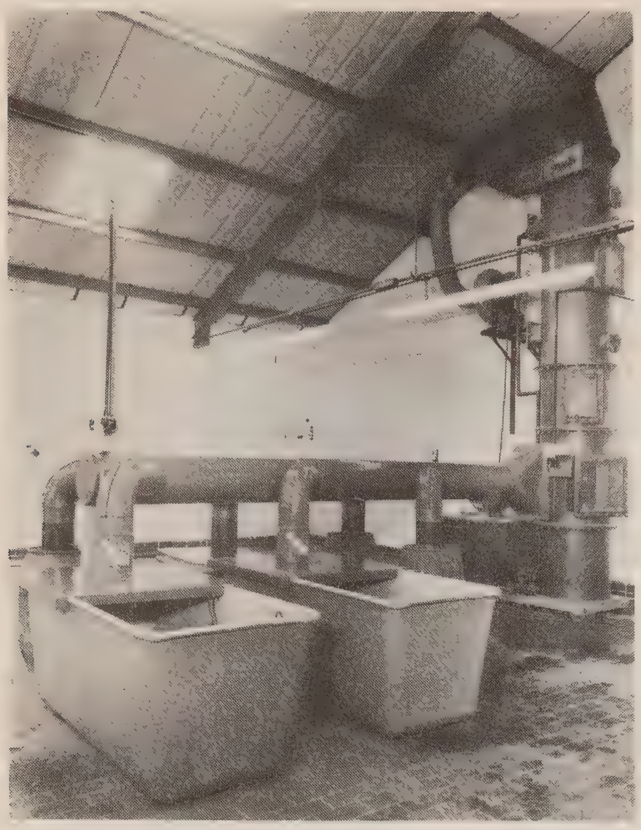
Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, tubular filters, self-induced spray wet dedusters, dust control units, automatic filtration systems and custom-built installations.

DUST SUPPRESSION INTERNATIONAL LTD.
Bourne End Mills, Hemel Hempstead
HP1 2RW
tel: Berkhamsted (044 27) 5522

Manufacturers and Consultants in Air Pollution Control. The range of equipment includes Chem-Jet wet suppression, Sky Kleen bag filters with top access, ajusta-throat venturi scrubbers and Ventnor rock drill dust collectors, all of this equipment meets the requirements of the Health and Safety at Work etc. Act 1974.

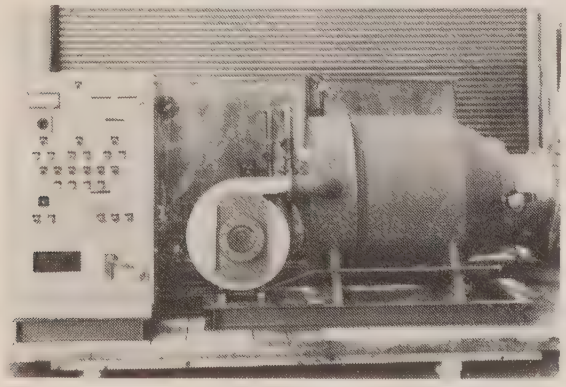
ELECTROLOID
~~ELECTROID~~ LTD.
Burrington Way, Plymouth,
Devon, PL5 3NF
tel: (0752) 779444
telex: 45330

~~Electroid~~, Plastics Division, are experts in the manufacture of fume scrubbing equipment manufactured in thermoplastic materials.



Electroloid Ltd. design, manufacture and install complete fume exhaust systems. Tanks and vessels, designed to BS 4994 (1973). Pumps and fans.

ENGELHARD INDUSTRIES LTD.
Engineering Division, Valley Road,
Cinderford, Glos.
tel: (0594) 22181
telex: 43274



Engelhard offer 'PTX' Vehicle Exhaust Gas Purifiers, 'Deodo' (as shown in the photograph above) Catalytic Air Pollution Control Systems, Chloropac electro-chlorinator for control of organic growths in cooling water systems and 'Odoxo' air pollution control systems which utilise sodium hypochlorite solution generated by our chloropac unit.

EPEMA
Environmental Protection Equipment
Manufacturers Association,
136 North Street, Brighton BN1 1RG
tel: 0273 26313

EPEMA

EPEMA was inaugurated in September 1972 under the auspices of the NSCA.

EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

There are currently Twenty-one ~~twenty three~~ members and these are listed below:

~~Airfilco Process Plant Ltd.;~~ Airflow Developments Ltd.; Airwick (UK) Ltd.; F.E. Beaumont Ltd.; C.F. Casella & Co. Ltd.; Concept Cleaning Equipment (International) Ltd.; Dust Suppression Ltd.; Electroloid Ltd.; Engelhard Industries Ltd.; Esmil-Envirotech Ltd.; ~~Fleming Instruments Ltd.; Glass Developments Ltd.;~~ Incinerator Company Ltd - The; Mass Transfer Ltd.; Mikropul Ducon Ltd.; Nailsea Engineering Co. Ltd.; The National Federation of Master Steeplejacks and Lightning Conductor Engineers; N-Con Systems Co. Inc.;

Johnson Matthey Chemicals Ltd

E.P. Plastics Ltd.; Provenair Ltd.
J. Smith (Southern) Ltd.;
Sutcliffe Speakman & Co. Ltd.;
Van Tongeren U.K. Ltd.

E.P. PLASTICS LTD.
152/3 Newport Street, Lambeth,
London SW11 6AQ
tel: 01-582 8660

Manufacturers of chemical plant and plating shop equipment, in combating corrosion in all industries. Fabrications include Scrubbers, Airwashers, Fume Extract Ducting & Hoods, Tanks, Tank Linings and Pipework in P.V.C., Telcovin 'TL' PVC Polypropylene, 'Celmar' etc. Design facilities for plants and equipment available.

GEC-ELLIOTT PROCESS AUTOMATION LTD.
New Parks, Leicester LE3 1UF
tel: (0533) 871331
telex: 34551

Specialises in automation and control systems including process controls (computer and non-computer based), remote control and measuring systems (telemetry) and electronic controllers for dust control equipment.

HEAD WRIGHTSON PROCESS ENGINEERING LTD.
Yarm, Cleveland, TS15 9DA
tel: Eaglescliffe (0642) 781010
telex: 58-606
cables: Teesdale Stockton-on-Tees

Designers and suppliers of gas cleaning plant, cooling towers and spray granulation plant.

HIVENT LIMITED
24-25 Wear Estate, Washington,
Tyne and Wear, NE37 1NA. tel: 0632
466204 telex: 53155 Hivent G.

hivent®

Hivent manufacture a wide range of Unit Dust Collectors with Fan Duties of 500, 1000, 2000 and 3000 c.f.m. and filter-fabric areas of 80, 120, 220 and 330 sp. ft.

All models incorporate explosion relief doors, acoustic silencers and electical safety interlocks as standard and comply to present requirements.

HUMIDIFIER MANUFACTURING CO. LTD.
21 Napier Road, Bromley BR2 9JA
tel: 01-464 6515 (10 lines)
telex: 896501

Humidifiers and Systems,
-Electrostatic Air Purifiers
-industrial, office, domestic.
Manufacture, supply, installation, free survey and consultancy service.

THE INCINERATOR COMPANY LTD.
Howard Road, Eaton Socon,
Huntingdon, Cambs. PE19 3ER
tel: Huntingdon (0480) 213171
telex: 32337

INCINCO

Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

INDUSTRIAL ACOUSTICS CO. LTD.
Walton House, Central Trading
Estate, Staines, Middx. TW18 4XB
tel: Staines 56251
telex: 25518
cables: Indcoustic Staines

iac
THE STANDARD OF SILENCE

Industrial Acoustics Company has 28 years experience in the design, manufacture and installation of all forms of noise control equipment. This includes services to general industry, building services, aviation silencing equipment, and rooms and chambers providing controlled acoustic environments for medical examination and research.

The Company also operates a Consultancy Service which undertakes projects from investigation through to installation of complete noise control systems.

INTERNATIONAL ENVIRONMENTAL BUREAU
FOR THE NON-FERROUS METALS
INDUSTRY
now Environmental Consultancy Service
c/o BNF Metals Technology Centre,
Grove Laboratories, Denchworth Rd.
Wantage, Oxfordshire OX12 9BJ
tel: 023 57 2992
telex: 837166

The ~~Bureau~~ Service studies the air pollution problems in the non-ferrous metals industries and provides to both members and non-members consultancy services and fume monitoring facilities in connection with all aspects of melting and processing.

JOHNSON MATTHEY CHEMICALS LTD.
Orchard Road, Royston, Herts.
SG8 5HE
tel: (0763) 44161
telex: 817351

JMC

Catalytic incineration of the organic content of process off-gases for odour abatement and energy recovery by means of Honeycat^{R} Air Pollution Control Systems. Catalytic reduction of nitrogen oxides from nitric acid plant tail gases. Catalytic exhaust purifiers for diesel engines and for cars to meet U.S. and Japanese emission standards.

LODGE-COTTRELL LTD.
George Street Parade, Birmingham
B3 1QQ
tel: 021-236 3388

Lodge-Cottrell DRESSER

Lodge-Cottrell Ltd. provide complete Gas Cleaning Plants for the removal of dust and fumes from gases resulting from industrial processes and in particular those emanating from cement manufacture, iron and steel production, power generation from solid fossil fuel boilers and municipal incineration.

LYON & PYE LTD.
543 Prescot Road, St. Helens,

Merseyside WA10 3BZ
tel: St. Helens 20925
telex: 627985
sales contact: Mr. A. Thompson

Manufacturers of Industrial Incineratiors for the disposal of Solid and Liquid Waste. Capable of destroying 100% Plastics and Rubbers. No fuel required for continuous combustion with many waste products. Generates hot water, reducing energy costs. Refractories used only on Primary Chamber Floor and Doors.

Other products include Ducting, Tanks, Cyclones, Flue Dust Extraction Plant, Fume Removal Equipment.

MODERN AIR SYSTEMS (LEICESTER) LTD.
Barkby Road, Leicester LE4 7LG
tel: Leicester 766316/7/8

NAILSEA ENGINEERING CO. LTD.
Mintsfeet Road South, Kendal, Cumbria
tel: 0539 24911

Manufacturers of equipment for the control of environmental pollution with particular emphasis on atmospheric dust control. The Nailsea range includes "Pnu-Jet" reverse pulse bag filters; variable throat Venturi scrubbers; and "Rainmaster" wet suppression equipment. Applications throughout industry, (quarries, chemical, process, iron, steel etc.) All Nailsea installations carry the guarantee that they will cope with the requirements of the Alkali Act.

NALFLOC LTD.
P.O. Box No. 11, Northwich, Cheshire CW8 4DX
tel: (0606) 74488
telex: 66-8663

Local offices at: Belfast, Bournemouth, Glasgow, Keighley, Leamington Spa, London, Manchester Stockton-on-Tees, Swansea~~.~~, Sheffield.

NALFLOC

Nalfloc Limited was founded by the association of the former "Alfloc" Water Treatment Service of ICI Limited and the Nalco Chemical Company.

Nalfloc provides a wide range of services, equipment and specialty chemicals for water and effluent treatment, for paper making, for the metal industry, for the marine world, and for general process uses throughout industry.

NEWELL DUNFORD ENGINEERING LTD.
Newell Dunford House, Portsmouth Road, Surbiton, Surrey KT6 5QF
tel: 01-398 4262
telex: 929574

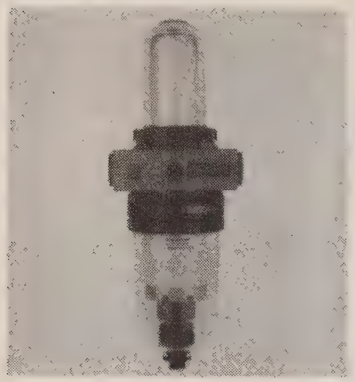
Newell Dunford Engineering's Thermix line is well known in heavy industry. Shrewd engineers who have to cope with really difficult air pollution problems appreciate the full complement of equipment available. ~~which includes: unitary and multitubular centrifugal collectors. Various wet collectors including high energy venturi scrubbers, reverse jet filters, cloth filter dust arrestors, high temperature filters, dust valves, exhaust fans and pneumatic conveying equipment.~~

C.A. NORGREN LTD.
Campden Road, Shipston-on-Stour, Warwickshire CV36 4PX
tel: (0608) 61676
telex: 83208

477 Barlow Moor Road, Chorlton-

See copy attached

cum-Hardy, Manchester M21 2AS
tel: 061-881 2358
telex: 668712



C.A. Norgren Limited. World leading manufacturer of compressed air processing equipment including the new DESIGN CENTRE 'AWARD WINNING' Olympian Plug-in System.
Filters, Pressure Regulators, Air Line Lubricators and associated equipment.
Vacuum Filters, Water Filters, Liquid Regulators, CO_2 Regulators.
Fluidic Devices and Systems.
Odour Control Equipment.

PEABODY HOLMES LTD.
Turnbridge, Huddersfield ~~DH1~~ NDI 6RB
tel: (0484) 22222
telex: 51306
London: 17/27 Garratt Lane, London SW18 4BY
tel: 01-874 6491
telex: 928632

Peabody Holmes

Peabody Holmes provide total capability in industrial atmospheric pollution control. This means design, manufacture, erection and commissioning of a comprehensive range of plant including electrostatic precipitators, high energy and impingement plate scrubbers, fabric filters and multi-cell cyclones. Other equipment includes incinerators for the destruction of poisonous or objectionable liquids and gases from industrial processes. Acoustic enclosures and an industrial noise consultancy service are also available.

PLASTIC CONSTRUCTIONS LTD.
Pacemakers in Plastics, Seeleys Road, Greet, Birmingham B11 2LP
tel: 021-773 1331 (10 Lines)
telex: 338752

Plastic CONSTRUCTIONS GROUP

The Plastic Constructions Group design, manufacture and install in acid-proof corrosion-resistant plastics fume ducting, fume-cabinets, PLACON fans and roof ventilators, pumps, valves, scrubbing towers, tanks, tank linings, pipes and pipelines.

POLKINGHORNE INDUSTRIES LTD.
Lillyhall Industrial Estate,
Workington, Cumbria CA14 4JL
tel: Workington 3521/2/3/4
telex: 64157

RODWAY & TAYLOR (B'HAM) LTD.
85-90 Buckingham Street, Birmingham B19 3HU
tel: 021-236 4027/8

Design, manufacture and installation of effluent treatment plant, dust and fume extraction, chimneys, process plant.

ROLFITE U.K. LTD.
Debaff House, 56-58 Maypole Road,
Ashurst Wood, East Grinstead,
Sussex RH19 3QY
tel: Forest Row 3777/8

rolfite

Rolfite products are based on a

patented oil-soluable nitrogenous manganese complex, including solutions and dispersions. They are designed to condition oil for more uniform atomisation, improve combustion, reduce corrosion and air pollution by combustion catalyst. Application is simple and operating economies exceed the cost of fuel treatment for any furnace.

SERCK VISCO
Stafford Road, Croydon CR9 4DT
tel: 01-686 3861/9
telex: 946085

Serck Visco are environmental control engineers specialising in the design manufacture and erection of dust collecting, air filtration and evaporative water cooling equipment. The equipment is designed to individual specification using standard modular construction units which enables special equipment to be produced from the most economical production methods possible.

STERLING INDUSTRIAL
Chapeltown, Sheffield S30 4YP
tel: (07415) 3171
telex: 547096

Sterling Industrial
Cleanliness at work

A range of odour control products and equipment are offered under the brand name AIR-OD-EX. Products include spray liquids for environmental use out of doors at industrial premises, sewage works, crematoria etc.

For indoor situations including toilets, washrooms, hospital wards, reception areas and the like, there are a number of dispensing units and a selection of odour counteractant gels and liquids which effectively neutralise malodours, leaving either an air-freshened effect or a residual perfume according to choice.

STURTEVANT ENGINEERING PRODUCTS LTD.
Acre Street, Denton, Manchester
M34 2AX
tel: 061-336 4325
telex: 668679

Comprehensive range of industrial fans including:

Type D Series paddle bladed fans for handling materials in powder or granular form.

SE 500 Series Monogram cast iron fans with radial or curved bladed impeller for diverse industrial applications.

SE 100 Series forward curved fans for many applications requiring high gas flow at low pressure.

BV and BAV Series aerofoil bladed fans for a wide range of industrial uses needing high throughput with low power requirements.

SUTCLIFFE SPEAKMAN & CO. LTD.
Chemical Plant Division, Guest Street, Leigh, Lancs WN7 2HE
tel: Leigh 72101
telex: 67555

Activated carbon equipment; effluent treatment plants and systems.

TECHMATION LTD.
58 Edgware Way, Edgware, Middx.
HA8 8JP
tel: 01-958 3111
telex: 262245

THRESH, BEALE & SUCKLING ~~(formerly The Counties Public Health Laboratories)~~ now International Consulting & Laboratory Services
288 Windsor Street, Birmingham
B7 4DW
tel: 021-359 5954

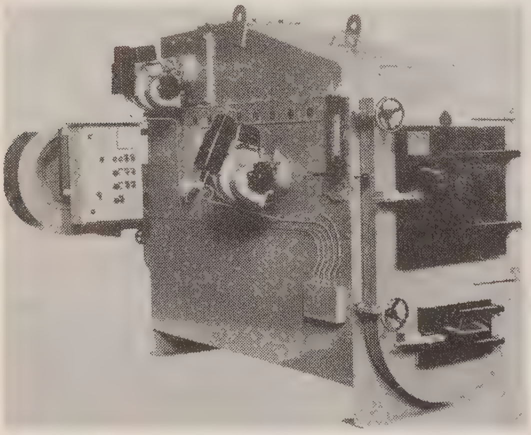
Environmental consulting and laboratory services - industrial effluent, sewage treatment, water quality and treatment, river, sea and air pollution. Services to industry, public utility undertakings, government agencies, local authorities. Consultancy - treatment process design, commission testing. Project Management.

Group environmental laboratories: Birmingham, London, Holland, Italy and Singapore.

TILGHMAN WHEELABRATOR LTD.
United Trading Estate, United Road,
Old Trafford, Manchester M16 0RJ
Tel: 061-872 8271
telex: 668138

(Air Pollution Control Engineers) Specialists in the design, manufacture and erection of high temperature fabric filters for high temperature industrial gas cleaning.

UNIVERSAL MACHINERY & SERVICES LTD.
Millshaw, Leeds LS11 8EQ
tel: (0532) 711888
telex: 557885 (UNIMAC)



Manufacturers of industrial, hospital and marine incinerators. The industrial range includes solid, liquid and sludge as well as material reclamation incinerators. All are designed for low running and maintenance costs and fully comply with the Clean Air Act as well as recent Government recommendations. Heat recovery equipment is also available.

VAN TONGEREN U.K. LTD.
Van Tongeren House, High Street,
Godalming, Surrey
tel: (04868) 28082
telex: 859487

Van Tongeren U.K. Limited are world-wide specialists in the design, supply and operation of high efficiency cyclones for all gas/solids separation applications. In addition they have a range of air classifiers for separation of powders, venturi/impingement wet collectors, rotary and double flap valves.

Van Tongeren have recently introduced a special design of high efficiency cyclones for use with energy recovery systems ahead of expander gas turbines.

VOKES AIR FILTERS LTD.
Stephen House, Burnley, Lancs.
BB11 1PD
tel: (0282) 38921
telex: 63267 Vokesair ~~Bnly~~ G.

Manufacturers of a comprehensive range of air filters.

WEBRON PRODUCTS LTD.
Bacup Road, Rawtenstall, Rossendale, Lancs. BB4 7JL
tel: (070 62) 4001
telex: 635077 Webron G.

Webron Products Ltd. manufacture a range of filter materials by needlefelt processes from Polyester, Polypropylene and high temperature Polyamide fibres.

WEBRON and ZEPHRON filter materials find their way into every type of industrial manufacturing plant where dust suppression units are in use, e.g. on milling conveying, grinding, sandblasting and smelting plants.

HYDRON Liquid filter materials are a relatively new range of products for use on filter presses, rotary filters, leaf and candle filters. These filters are widely used on sewage works, coal washeries, chemical and foodstuff processing plants. These materials possess the advantage of high filtration rates combined with excellent clarification.

WIMPEY LABORATORIES LTD.
Beaconsfield Road, Hayes,
Middlesex UB4 LS
tel: 01-573 7744
telex: 935797
telegrams & cables: Wimpeylab
Hayes

Wimpey Laboratories offer a noise and vibration measuring and advisory service which is operated by engineers and physicists whose experience in this field has been gained by dealing with quality control and design problems in Wimpey and other contracts.

Surveys dealing with air and other environmental pollution are also undertaken.

DIANA WYLLIE LTD.
3, Park Road, Baker Street,
London NW1 6XP

Filmstrips /Tape slide sets

"Energy" by
Rear Admiral P.G. Sharp and
Harry Brown

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Dr. Michael Flood

"The Air You Breath" by
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"Air Pollution" by
Professor R.S. Scorer

"Water Pollution" by
J. Ian Waddington

"Waste and Re-Cycling" by
Tom Burke

"Population and Resources" by
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"Nature Conservation in the
British Isles" by Dr. D.H. Dalby

"Man-Made World" by John Donat

"New Life for Old Buildings" by
Nicholas Jones

In Preparation: "Noise by
Dr. Keith Attenborough

All with full lecture notes; some with cassette commentaries.

Write for details.

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Acoustic Contractors
Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.
Peabody Holmes Ltd.

Activated Carbon Equipment
Electroloid Ltd.
Sutcliffe Speakman & Co. Ltd.

Activated Carbons
Sutcliffe Speakman & Co. Ltd.

Aerators
William Boulton Ltd.

Agitators
William Boulton Ltd.

Air Conditioning Equipment
John Bass Ltd.
Electroloid Ltd.

Air Disinfecting Products
Bacterol Ltd.

Air Freshener Spray Fluids
Bacterol Ltd.

Air Movers
William Boulton Ltd.
HMC-Brauer Ltd.

Air Pollution Control
Ambuco Division of Esmil-Envirotech Ltd.
Bacterol Ltd.
Bostock, Hill & Rigby Ltd.
William Boulton Ltd.
Dust Suppression International Ltd.
Electroloid Ltd.
Engelhard Industries Ltd.
E.P. Plastics Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Serck Visco
Thresh, Beale & Suckling
Tilghman Wheelabrator Ltd.
Van Tongeren U.K. Ltd.
Wimpey Laboratories Ltd.

Air Pollution Measurement
AI Industrial
Bostock, Hill & Rigby Ltd.
C.F. Casella & Co. Ltd.
Charles Austen Pumps Ltd.
Dust Suppression International Ltd.
Ltd.
International Environmental Bureau for the Non-Ferrous Metal Industries
Nailsea Engineering Co. Ltd.
Polkinghorne Industries Ltd.
Techmation Ltd.
Thresh, Beale & Suckling
Wimpey Laboratories Ltd.

Air Sterilisation
Bacterol Ltd.

Analysis Apparatus: Gases
AI Industrial
International Environmental Bureau for the Non-Ferrous Metal Industries

Analysis Apparatus: Noise/Vibration
International Environmental Bureau for the Non-Ferrous Metal Industries

Analysis Apparatus: Particles/Powders
International Environmental Bureau for the Non-Ferrous Metal Industries

Analysis Apparaturs: Water
International Environmental Bureau for the Non-Ferrous Metal Industries
Techmation Ltd.

Anti-Soot & Corrosion Treatment
Nalfloc Ltd.
C.A. Norgren Ltd.
Rolfite U.K. Ltd.

Associations
EPEMA

Automatic Control Equipment
GEC-Elliot Process Automation Ltd.
C.A. Norgren Ltd.

Bacteria Sampling Equipment
C.F. Casella & Co. Ltd.

Bifurcatated Fans (PVC and Polypropylene)
Electroloid Ltd.

Blowers
William Boulton Ltd.
Electroloid Ltd.
Peabody Holmes Ltd.

Boiler Feedwater Treatment
Bostock, Hill & Rigby Ltd.
Nalfloc Ltd.
Thresh, Beale & Suckling

Burners: Catalytic
Engelhard Industries Ltd.

Burners: Gas
Peabody Holmes Ltd.

Burners: Oil
Peabody Holmes Ltd.

Burners: Solid Fuel
Peabody Holmes Ltd.

Canopy Hood
Electroloid Ltd.

Catalysts
Engelhard Industries Ltd.

Catalytic Air Pollution Control
Units
Engelhard Industries Ltd.
Johnson Matthey Chemicals Ltd.

Centrifugal Fans (PVC and Polypropylene
Electroloid Ltd.
E.P. Plastics Ltd.

Chemical Handling Plant
Electroloid Ltd.

Chimneys
F.E. Beaumont Ltd.
Rodway & Taylor (B'ham) Ltd.

Clean Rooms
John Bass Ltd.
Modern Air Systems (Leicester) Ltd.

Combustion Catalysts
Engelhard Industries Ltd.
Nalfloc Ltd.
Rolfite U.K. Ltd.

Controllers: Automatic Systems
GEC-Elliott Process Automation Ltd.

Controllers: Gas Pressure
C.A. Norgren Ltd.
Techmation Ltd.

Controllers: Liquid Level
C.A. Norgren

Controllers: Temperature
Polkinghorne Industries Ltd.

Coolers
William Boulton Ltd.

Cooling Towers
Head Wrightson Process Engineering Ltd.
Serck Visco

Cyclones
Ambuco Division of Esmil-Envirotech Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Lyon & Pye Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Serck Visco
Van Tongeren U.K. Ltd.

Deodorant Preparations & Dispensers
Bacterol Ltd.

Detectors: Dust
AI Industrial
C.F. Casella & Co. Ltd.
Polkinghorne Industries Ltd.

Detectors: Explosive Gases
AI Industrial
C.F. Casella & Co. Ltd.

Detectors: Mercury Vapour
C.F. Casella & Co. Ltd.

International Environmental Bureau for the Non-Ferrous Metals Industries

Detectors: SO_2
C.F. Casella & Co. Ltd.
Techmation Ltd.

Detectors: Toxic Gases
AI Industrial
C.F. Casella & Co. Ltd.
Techmation Ltd.

Distillation Equipment
Sutcliffe Speakman & Co. Ltd.

Dryers: Compressed Air
C.A. Norgren

Ducting
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E.P. Plastics Ltd.
Lyon & Pye Ltd.
Modern Air Systems (Leicester) Ltd.

Dust Classification Plant
Nailsea Engineering Co. Ltd.
Van Tongeren U.K. Ltd.

Dust Collection Equipment
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Serck Visco
Van Tongeren U.K. Ltd.

Dust Collection Equipment & Plant
Ambuco Division of Esmil-Envirotech Ltd.
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Rodway & Taylor (B'ham) Ltd.
Serck Visco
Tilghman Wheelabrator Ltd.
Van Tongeren U.K. Ltd.

Dust Collectors
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Serck Visco

Dust Collector Filter Media
Modern Air Systems (Leicester) Ltd.
Serck Visco
Tilghman Wheelabrator Ltd.
Webron Products Ltd.

Dust Sampling Equipment
AI Industrial
C.F. Casella & Co. Ltd.
International Environmental Bureau for the Non-Ferrous Metals Industries

Dust Suppression Equipment
John Bass Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Nailsea Engineering Co. Ltd.
Serck Visco

Effluent/Sludge Tankers
Electroloid Ltd.

Effluent Treatment: Media
Bacterol Ltd.
Webron Products Ltd.

Effluent Treatment: Plant/Systems
Ambuco Division of Esmil-Envirotech Ltd.
Bostock, Hill & Rigby Ltd.
Concept Cleaning Equipment (International) Ltd.
Engelhard Industries Ltd.
E.P. Plastics Ltd.
Rodway & Taylor (B'ham) Ltd.
Thresh, Beale & Suckling

Electrostatic Precipitators
Head Wrightson Process Engineering Ltd.
Lodge-Cottrell Ltd.

Peabody Holmes Ltd.
Polkinghorne Industries Ltd.

Electrostatic Unit Air Cleaners
Humidifier Manufacturing Co. Ltd.

Exhaust Purification
Engelhard Industries Ltd.
Johnson Matthey Chemicals Ltd.

Fabric Filters
Dust Control Equipment Ltd.
Head Wrightson Process Engineering Ltd.
Modern Air Systems (Leicester) Ltd.
Peabody Holmes Ltd.
Tilghman Wheelabrator Ltd.
Webron Products Ltd.

Fans & Blowers
Electroloid Ltd.
Modern Air Systems (Leicester) Ltd.
Sturtevant Engineering Products Ltd.

Filters: Air
John Bass Ltd.
Nailsea Engineering Co. Ltd.
Serck Visco
Vokes Air Filters Ltd.

Filters: Air (Compressed)
C.A. Norgren Ltd.

Filters: Dust
Dust Control Equipment Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Serck Visco

Filters: Electrostatic Oil Mist
Hivent Ltd.

Filters: Water
C.A. Norgren Ltd.

Flue Dust Extraction Plant
Ambuco Division of Esmil-Envirotech Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Lyon & Pye Ltd.
Modern Air Systems (Leicester) Ltd.
Peabody Holmes Ltd.
Van Tongeren U.K. Ltd.

Flue Gas Dust Sampling Equipment (BCURA Type)
International Environmental Bureau for the Non-Ferrous Metals Industries

Flue Gas Treatment
Peabody Holmes Ltd.

Fuel Additives
Nalfloc Ltd.
Rolfite U.K. Ltd.

Fuel Efficiency Advisory Service
International Evironmental Bureau for the Non-Ferrous Metals Industries

Fuel Oil Combustion Improver
Rolfite U.K. Ltd.

Fuel Oil Conditioner
Rolfite U.K. Ltd.

Fuels: Solid Smokeless
Coalite & Chemical Products Ltd.

Fume Removal Equipment
HMC-Brauer Ltd.
Engelhard Industries Ltd.
Hivent Ltd.
Lyon & Pye Ltd.
Modern Air Systems (Leicester) Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.

Furnaces, Kilns, Ovens etc.
R.M. Catterson-Smith Ltd.

Gas Cleaning Plant
William Boulton Ltd.
Engelhard Industries Ltd.
Head Wrightson Process Engineering Ltd.
Lodge-Cottrell Ltd.
Nailsea Engineering Co. Ltd.
Peabody Holmes Ltd.
Tilghman Wheelabrator Ltd.
Van Tongeren U.K. Ltd.

Gas Scrubbers & Washers
William Boulton Ltd.
Dust Suppression International Ltd.
Electroloid Ltd.

Head Wrightson Process Engineering Ltd.
Nailsea Engineering Co. Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.
Van Tongeren U.K. Ltd.

Grit Arrestors

Ambuco Division of Esmil-Envirotech Ltd.
F.E. Beaumont Ltd.
Nailsea Engineering Co. Ltd.
Van Tongeren U.K. Ltd.

Heat Exchangers

William Boulton Ltd.

Heaters: Water

William Boulton Ltd.

Heating Equipment: Industrial (Process/Space)

GEC-Elliot Process Automation Ltd.

Humidifiers

Humidifier Manufacturing Co. Ltd.

Humidity Recorders

C.F. Casella & Co. Ltd.

Incinerators

Cleerburn Ltd.
The Incinerator Co. Ltd.
Johnson Matthey Chemicals Ltd.
Lyon & Pye Ltd.
Peabody Holmes Ltd.
Universal Machinery & Services Ltd.

Indicators: Humidity

C.F. Casella & Co. Ltd.

Indicators: Sound Level

Castle Associates

Instruments: Guages, Meters etc.

William Boulton Ltd.

Insulation: Acoustics

Allaway Acoustics Ltd.

Ion Exchange

Nalfloc Ltd.

Laboratory Fume Cabinets

Electroloid Ltd.

Laboratory Installations

Bostock, Hill & Rigby Ltd.
E.P. Plastics Ltd.
Tresh, Beale & Suckling

Lectures, Filmstrips, Tape/Slide Sets & Notes

Diana Wyllie Ltd.

Masking Agents

Bacterol Ltd.

Meteorological Instruments

C.F. Casella & Co. Ltd.

Meters

William Boulton Ltd.

Meters: Sound Level

Castle Associates

Monitoring Equipment

C.F. Casella & Co. Ltd.
GEC-Elliott Process Automation Ltd.
Techmation Ltd.

Noise Control Materials

Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.

Noise Suppression

Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.
International Environmental Bureau for the Non-Ferrous Metals Industries
Serck Visco

Noise/Vibration Attenuation

Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.
Wimpey Laboratories Ltd.

Noise/Vibration: Control Engineers

Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.
International Environmental Bureau for the Non-Ferrous Metals Industries.
Peabody Holmes Ltd.
Wimpey Laboratories Ltd.

Noise/Vibration: Control Systems

Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.

Noise/Vibration: Measuring Equipment

Castle Associates

Noise/Vibration: Protective Devices
Allaway Acoustics Ltd.
Industrial Acoustics Co. Ltd.

Odour Absorption
William Boulton Ltd.
Engelhard Industries Ltd.

Odour Control
Bacterol Ltd.
Bostock, Hill & Rigby Ltd.
William Boulton Ltd.
Engelhard Industries Ltd.
C.A. Norgren Ltd.
Plastic Constructions Ltd.
Sterling Industrial
Sutcliffe Speakman & Co. Ltd.
Thresh, Beale & Suckling

Pipeline Equipment
AI Industrial

Pipeline Equipment & Services
E.P. Plastics Ltd.
Plastic Constructions Ltd.

Pollution Control Advisory Services
Bacterol Ltd.
Bostock, Hill & Rigby Ltd.
Dust Suppression International Ltd.
International Environmental Bureau for the Non-Ferrous Metals Industries
Nailsea Engineering Co. Ltd.
Thresh, Beal & Suckling
Van Tongeren U.K. Ltd.

Process Instrumentation
GEC-Elliot Process Automation Ltd.

Pumps
Charles Austen Pumps Ltd.
Plastic Constructions Ltd.

Re-odorant Spray Fluids
Bacterol Ltd.

Research & Development Facilities
Bostock, Hill & Rigby Ltd.
International Environmental Bureau for the Non-Ferrous Metals Industries
Thresh, Beale & Suckling

Roof Ventilators (PVC)
Plastic Constructions Ltd.

Scrubbers
Ambuco Division of Esmil-Envirotech Ltd.
William Boulton Ltd.
Dust Suppression International Ltd.
Electroloid Ltd.
E.P. Plastics Ltd.
Head Wrightson Process Engineering Ltd.
Lodge-Cottrell Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.
Rodway & Taylor (B'ham) Ltd.
Van Tongeren U.K. Ltd.

Sleeves & Tubes (for Fabric Filters)
Webron Products Ltd.

Smut Inhibitors
Rolfite U.K. Ltd.

SO_2 Samplers
C.F. Casella & Co. Ltd.

Solvent Recovery Plant
Sutcliffe Speakman & Co. Ltd.

Spraying Apparatus for Deodorants etc.
Bacterol Ltd.

Tanks & Tank Linings
Electroloid Ltd.
E.P. Plastics Ltd.
Lyon & Pye Ltd.
Plastic Construction Ltd.
Rodway & Taylor (B'ham) Ltd.

Temperature Recorders
C.F. Casella & Co. Ltd.

Thermometers, Indicators etc.
C.F. Casella & Co. Ltd.
Polkinghorne Industries Ltd.

Thermostats
Polkinghorne Industries Ltd.

Towers
William Boulton Ltd.

Unit Dust Collectors

Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Head Wrightson Process Engineering Ltd.
Hivent Ltd.
Modern Air Systems (Leicester) Ltd.
Serck Visco

Vacuum Cleaners: Industrial (Pneumatic)

C.A. Norgren Ltd.

Waste Material Disposal Furnaces

The Incinerator Co. Ltd.

Wet Arrestors

Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Electroloid Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Van Tongeren U.K. Ltd.

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1978·79 NSCA MEMBERS' HANDBOOK

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Norwich
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Northampton
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1978-79
NSCA
MEMBERS' HANDBOOK

Front cover shows UK Smoke Control Areas 1977 under the Clean Air Acts 1956, 1964 and 1968.

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NATIONAL SOCIETY FOR CLEAN AIR

The parents of the Society were the Coal Smoke Abatement Society, established in London in 1899. In 1929, the CSAS combined with the Smoke Abatement League of Great Britain, a group of provincial associations, and became the National Smoke Abatement Society. The NSAS widened its horizon to cover all forms of air pollution and in 1958 the name was changed to the present one. The Society's membership includes private individuals, local authorities, corporate bodies representing the learned societies and institutions, the fuel industries, and industries concerned with the production of appliances and equipment for the control of air pollution. The Council of the Society, with a number of reporting committees, governs the organisation and policies of the NSCA, and an administrative staff is employed at the Brighton Headquarters.

The Society's object is to promote public education in all matters relating to the value and importance of clean air, and to initiate, promote and encourage investigation and research into all forms of pollution in order to achieve its reduction or prevention. To this end, the Society has recently extended its interest to include surveys of noise, water pollution and wastes disposal. The NSCA is a founder member of an international group, the International Union or Air Pollution Prevention Associations, the function of which is to promote international collaboration and exchange of information, and to organise congresses.

The Society publishes the proceedings of its annual conferences, workshops and seminars. Other regular publications are the journal 'Clean Air' and the Reference Book. Pamphlets, booklets and technical reports on particular subjects are also published from time to time.

The Society's main activities are the holding of conferences, seminars, meetings and exhibitions. The information service provides educational and publicity material, collecting and disseminating books, periodicals photographs and slides on the causes, effects and prevention of atmospheric and other forms of pollution. Special pamphlets are published for schools, school children and students.

The Society's Library is available for consultation or for loan purposes. The Library possesses an extensive collection of British and foreign books, reports, papers and current journals. There is a classified collection of photographs (mainly black and white) depicting domestic and industrial smoke; air pollution damage to buildings, metals and plants; air pollution control equipment and installations. A collection of colour slides and filmstrips is also available on loan. Students and research workers are welcomed at the Society's offices to use the Library resources.

MEMORANDUM & ARTICLES OF ASSOCIATION & BYE- LAWS

THE COMPANIES ACTS, 1948 TO 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
3.(1)The object for which the Society is established is to promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control.

(2)In furtherance of the foregoing object but not further or otherwise the Society shall have the following powers:

(A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.

(B) To promote by meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means the collection and dissemination of knowledge about pollution, its causes and effects, and the means to prevent it.

(C) To encourage the adoption of methods to reduce and prevent pollution.

(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.

(E) To initiate, support and co-operate with others in proposals and activities calculated to assit the promotion of the Society's objects.

(F) To establish, and support or aid in the establishment and support of any charitable associations or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.

(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.

(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.

(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.

(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.
(M) To take all such other steps as will further the attainment of the above objects or any of them.
PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.
PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.
PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary or State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

THE COMPANIES ACTS 1948 to 1967
COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:-

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a

Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.

Words importing the masculine gender only shall include the feminine gender and vice viersa and

Words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Soeity for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership

INDIVIDUAL MEMBERS

(c)(i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

LOCAL AUTHORITY MEMBERS

(d)(i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than four Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation "Local Authority" shall be deemed to include "Health Authorities" and "Water Authorities" or such other like authorities as the Council shall from time to time admit for membership.

CORPORATE MEMBERS

(e)(i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but it if desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

SUSTAINING MEMBERS

(f) Any member who subscribes not less than the sum as prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a Sustaining Member.

HONORARY MEMBERS

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

STUDENT MEMBERS

(h) Any bona fide non-graduate student pursuing a course of study at

school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

APPLICATION FOR MEMBERSHIP

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

RESIGNATION OF MEMBERS

(j)(i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

- (a) whose annual subscription has remained unpaid for two successive years, or
- (b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or
- (c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

ANNUAL SUBSCRIPTIONS

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETINGS

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary General Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given

in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings othern than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental ommissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:-

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.
(b) Appointing Auditors and fixing their remuneration.
(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman

or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The Officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be appointed by the Society as a Vice-President, provided that he or she is:

(i) A person distinguished by his or her work in relation to pollution control, or

(ii) A person deserving of honour for services rendered to the Society or whose association with the Society is for other reasons desirable.

(b) Vice-Presidents shall not exceed six in number.

(c) The term of office of a Vice-President shall not exceed three years at the end of which term he may, if he so agrees, be re-elected to the office.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they

shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term "National or similar organisation" shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:-

(a) If he ceased to be a member or a Representative of a member of the Society;

(b) If by notice in writing to the Society he resigns his office;

(c) If a receiving order is made against him or he make any arrangement or composition with his creditors;

(d) If he becomes of unsound mind;

(e) If he ceases to hold office by reason of any order made under

Section 188 of the Act of 1948;

(f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

(a) As to entrance fees (if any) payable in respect of membership of the Society.

(b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.

(c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.

(d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.

(e) As to the manner in which the Elections of Officers and Council members shall be conducted.

(f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the

Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37. (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In case of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provision of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expanded by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such

members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Special Resolution dated the 29th March 1974 and as amended on 13th October 1976, 6th July 1977 and 20th July 1978.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

The annual subscription payable by an Individual Member shall be not less than Five Pounds. On attainment of the age of 65 on payment of a sum of Ten Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.

(b) Student Members

The annual subscription payable by non-graduate students pursuing their studies at school, college or university shall be One Pound.

(c) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For Local Authorities with a population of:

Less than 100,000	£ 72.00
100,001 to 250,000	£ 90.00
250,001 to 500,000	£110.00
500,001 to 1,000,000	£145.00

For each additional 500,000 or part thereof £15.00

(d) Corporate Members and Unincorporated Bodies appointed in accordance with Article 4(e)(ii)

The annual subscription payable by Corporate Members and Unincorporated Bodies shall be not less than as follows:

- (i) Small local civic societies, colleges, schools and similar organisations £7.50.
- (ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms £50.00.
- (iii) Industrial organisations £72.00.

(e) Sustaining Members

The annual subscription for Sustaining Members shall be not less than £100.00.

(f) Membership - Special Cases

The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3.(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than four Representatives.

(b) Corporate Members

- (i) Corporate Members paying a subscription of £7.50 per annum shall each be entitled to appoint one Representative.
- (ii) Corporate Members paying a subscription of £50.00 per annum shall each be entitled to appoint two Representatives.
- (iii) Corporate Members paying a subscription of £72.00 or more per annum shall each be entitled to appoint four Representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Student Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members, Student Members and Representatives as officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members' Handbook of the Society.
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5.(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. Scotland
2. Northern Ireland
3. Northern:
   Cleveland, Cumbria, Durham, Northumberland, Tyne and Wear.
4. North West:
   Cheshire, Clwyd, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. Yorkshire and Humberside:
   Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands:
   Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. East Midlands:
   Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.
8. Eastern:
   Essex, Norfolk, Suffolk.
9. London and South East:
   East Sussex, Greater London, Hertfordshire, Kenty, Surrey, West Sussex.

10. Central Southern:
    Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
11. South West:
    Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
12. South and Mid Wales:
    Wales except for Clwyd and Gwynedd.

or such additions or alterations to areas as the Society may determine.

(b) All Members shall be considered as belonging to the Division in which their address, as entered upon the Society's records is situated.

(c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.

(d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

6.(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.

(b) Vice Presidents shall be elected every three years on the recommendation of the Council by the Society at its Annual General Meeting.

(c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

7.(a) The business of the Council shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.

(b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen, and the following Committees:

(i) Conference and Publicity
(ii) General Purposes and Finance
(iii) Parliamentary and Local Government
(iv) Technical
(v) Any other Committee considered by the Council to be necessary.

(c) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.

(d) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8.(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the offices of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).
Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President: Sir Brian Flowers, MA, DSc, FRS,
Immediate Past President: Prof. P.J. Lawther, CBE, MB BS, DSc, FRCP,
Vice Presidents: Stanley E. Cohen, CBE
L. Eastwood
Prof. P.J. Lawther, CBE, MB BS, DSc, FRCP,
Dr. A. Parker, CBE,
T. Henry Turner
Hon. Treasurer: R.A.W. Hollingdale
Chairman of Council: Prof. R.S. Scorer, MA, PhD, FRSH, FIMA, FRAeS
Deputy Chairmen: H.I. Fuller, MA, F.Inst.Pet.
A.J. Clarke
Immediate Past Chairman: T.H. Iddison, MBE

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE: Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE: Sir Alan Wilson, FRS; Mr. S.E. Cohen, CBE; Mr. H.B. Greenborough, CBE; Professor P.J. Lawther, CBE.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland: I.B. Anderson, I. MacPherson, P.J. McPartlin
Northern Ireland: J.R. Lamont
Northern: C.R. Cresswell, L. Poole, T.W. Yellowley
North West: C. Darley, I. Liversidge, J.B. Marsh, W.E. Pollitt, A.T. Traynor, W. Shires
Yorkshire & Humberside: L. Hay, J. Mernagh, G. Robinson W.B. Twyford
West Midlands: G.T. Randall, Rev. B.N. Shackleton, Mrs. W.E. Willetts
East Midlands: R.S. Chamberlain, K.R. Enderby, D.F. Haynes, T. Henry Turner

London & South East: M. Beaumont, E.B. Briggs, J. Clancey, E.S. Herbert, Mrs. D. Hickman, A.G. O'Gilvie, Prof. R.S. Scorer, G.C. Stubbs
Central Southern: A.J. Rees, R.F. Shapter
South West: T.K. Aston, P. Draper, L.E. Robson
South & Mid Wales: C. Lewis, C. Summers

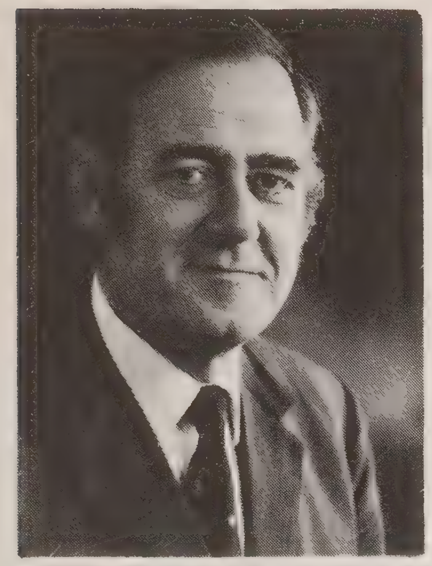
Appointed Representatives of National Bodies:

Asbestos Information Committee: J.L. Kay Green
British Gas Corporation: E.A.K. Patrick
British Steel Corporation: C.M. Davis
Central Electricity Generating Board: A.J. Clarke
Electrical Association for Women: Miss M. George
Electricity Council: D.N. Clouting
E.P.E.M.A.: K.S. Dunn
Environmental Health Officers' Association: T.H. Iddison
Industrial Gas Cleaning Association: K.H. Pearson
Institute of Petroleum: H.I. Fuller
Institution of Gas Engineers: Dr. F.A. Burden
Low Temperature Coal Distillers' Association: R. Pane
National Coal Board: R.W.C. Wheatley
Royal Society of Health: J. Clancey
Solid Smokeless Fuels Federation: H. Giblin
Women's Solid Fuel Council: Mrs. J. Saunders
Women's Gas Federation and Young Homemakers: Mrs. R. McLusky

Secretary General: Rear Admiral P.G. Sharp, CB, DSC

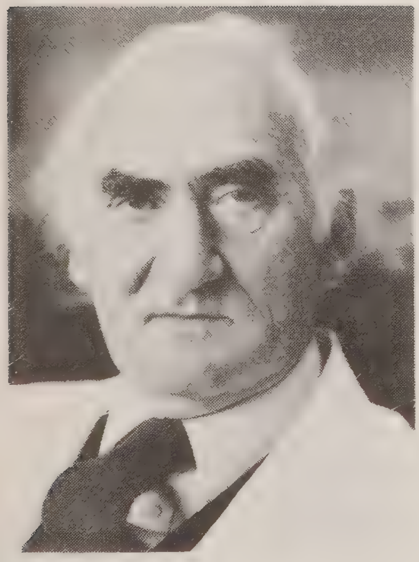
Solicitors: Messrs. Wedlake Bell
Auditors: Messrs. Geo. Little, Sebire & Co.

WHO'S WHO 1978/79



SIR BRIAN FLOWERS

SIR BRIAN FLOWERS, FRS, President of the Society, was educated at Swansea, Gonville and Caius College, Cambridge, and at the University of Birmingham. He was appointed Head of the Theoretical Physics Division at Harwell in 1952 and Chief Research Scientist in 1958. In the same year he became Professor of Theoretical Physics at Manchester University and from 1961-72 was Langworthy Professor. From 1966 to 1970 he was Chairman of the Computer Board for Universities and Research Councils. In 1967 he was appointed Chairman of the Science Research Council. He was President of the Institute of Physics, 1972-74. He became Rector of Imperial College of Science and Technology in 1973, and was Chairman of the Royal Commission on Environmental Pollution 1974-76. In 1974, he was elected President of the European Science Foundation and in 1976 was re-elected for a further two year.



PROFESSOR PATRICK J. LAWTHER

PROFESSOR PATRICK J LAWTHER, CBE, MB, DSc, FRCP, Vice President of the Society and Immediate Past President (1975/7), was educated at Carlisle Grammar School, Morecombe Grammar School and King's College London. After spending one year as a school master he went into the Chemical Industry which he left in 1945. In 1950 he qualified as an MB BS of the University of London (St. Bartholomew's Hospital). He joined the Medical Research Council in 1955 to found the Air Pollution Research Unit (now called the Toxicology Unit, Clinical Section). He is now the Physician in charge of the Department of Environmental and Preventive Medicine at Bart's and is Professor of Environmental and Preventive Medicine of the University of London at St. Bartholomew's Hospital Medical College. He acts as Consultant Adviser to the Department of Health and Social Security, and is Civilian Consultant to the Royal Navy in Environmental Medicine.

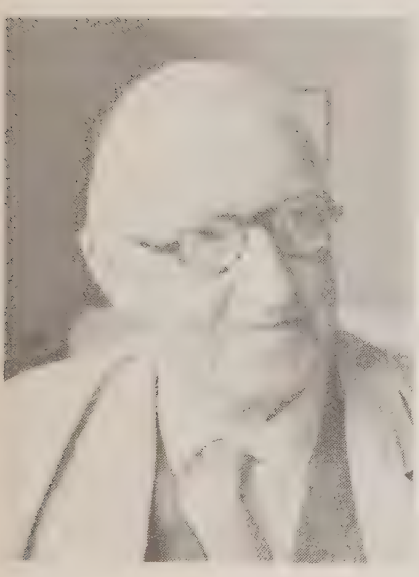
STANLEY E. COHEN

STANLEY E COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first City to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution of motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.

DR. ALBERT PARKER

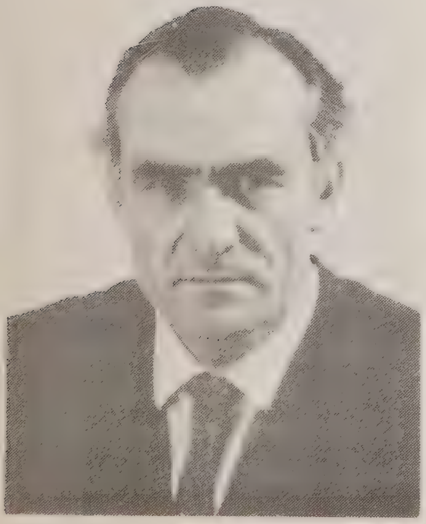
DR. ALBERT PARKER, CBE, DSc, FRIC, FIChemE, FIGasE, Vice President of the NSCA, is an Individual Member of the Society. He was President of the Society, 1963/5. He graduated from Manchester University, 1st class Hons. in 1912 and was Research Fellow, 1912-1914. He was appointed Lecturer, Birmingham University 1914-19; Inspector of Production of High Explosives 1914-18; Head of Research, Institution of Gas Engineers 1919-28; Assistant Director and then Director Water Pollution Research Government DSIR 1928-43; Director of Government Fuel and Air Pollution Research 1943-56. He has been an Independent Chemical Engineering Consultant from 1956. He was Lt. Colonel in charge of the British and US team with the American advance in the Ruhr, Germany in 1945. He has travelled in many countries as consultant, and has had hundreds of articles in books, journals and encyclopaedia published in various countries. He holds awards from the NSCA and several chemical and engineering societies in the UK.

LEN EASTWOOD, MAPHI, Vice-President of the Society, represents the Yorkshire and Humberside Division. He is Chairman of the Division and was a member of the Society's Parliamentary and Local Government Committee. He was Director of Environmental Health, Rotherham BC, until his retirement last year.



T. HENRY TURNER

T. HENRY TURNER, MSc, CEng, FIMechE, FIM, Vice-President of the Society, represents the East Midlands Division, NSCA. He attended the AGM of the NSAS as an individual subscriber in February 1945. He attended the Standing Conference of Co-operating Bodies for the first time in 1945, and since 1965 as "nominee". He was Chief Chemist and Metallurgist LNER 1930-50; Superintendent Metallurgy Division BR 1950-59; Metallurgist Editor "The Engineer" 1959-66. In 1947 he was elected the first Chairman of the Yorkshire Division, NSAS; in 1954 he was elected Chairman of NSAS East Midlands Division. From 1962/5, he was Deputy Chairman of the NSCA Council. He is an individual covenant member, and has attended 26 annual conferences of the Society.



PROFESSOR RICHARD S. SCORER

PROFESSOR RICHARD S. SCORER, MA, PhD, Chairman of the Council of the Society, represents the London and SE Division, NSCA. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips: 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles). He was in the Meteorological Office & RAF 1941-5. He was appointed as Lecturer (Meteorology) Imperial College in 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Royal Meteorological

Society (Hon. Sec. 1956-60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmospheric Environment) Recent books include 'The Clever Moron' (Routledge & Kegan Paul) and 'Environmental Aerodynamics' (Ellis Horwood & John Wylie) 1977. He was an Alderman, London Borough of Merton (1971-78) and on the Metropolitan Water Board 1971-74.

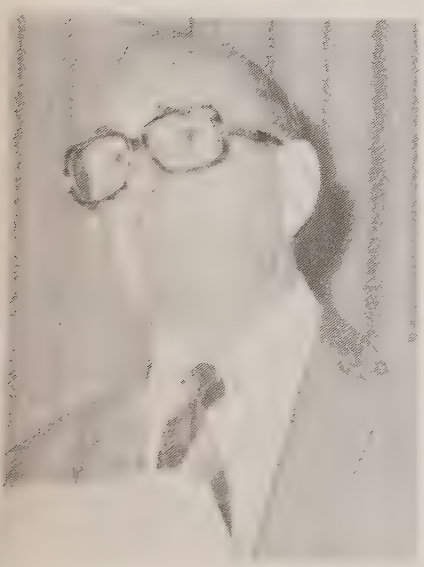
TOM H. IDDISON, MBE, FEHA, represents the Environmental Health Officers Association. His first public health appointment was with Staffordshire CC in 1930. He represented Dartford BC on the Society from his appointment as Chief Inspector in 1948 until his retirement in 1977. Since 1948 he has been a frequent participant in various capacities at Divisional Meetings and annual conferences. He has been Chairman of the Parliamentary & Local Government Committee since 1968 and was Chairman of the Council of the Society, 1977/78. He has been a member of the Clean Air Council since 1970 and Chairman of its Law and Administration Committee. He is also Chairman of the Standing Conference of Co-operating Bodies. He was a member of the Council of EHOA from 1961-75, Chairman of its L&P Committee 1970-73 and of its General Council in 1971.

HOWARD I. FULLER

HOWARD I. FULLER, MA, FInstPet, represents the Institute of Petroleum. He is a Principal Research Scientist at the Esso Research Centre, Abingdon, where he has worked for more than 30 years. His various activities include 6 years as technical adviser to Esso affiliates in countries of North Africa. For the last 12 years he has concentrated on environmental matters. He is now responsible for understanding and advising on public and governmental concerns about the environment with respect to Esso's products and operations. He has been a member of the NSCA Council since 1972, is Senior Deputy Chairman of the Society and Chairman of the GP&F Committee.

A. JOHN CLARKE

A. JOHN CLARKE represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Headquarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. Mr. Clarke has served on the Council since 1967 and was Chairman of the Technical Committee 1972-1978. He was elected Deputy Chairman of the Council in 1978.



RICHARD A.W.
HOLLINGDALE

RICHARD A. W. HOLLINGDALE is Honorary Treasurer of the Society. He represented the North Western Gas Board on the North Western Divisional Council from November 1952 to May 1976 and since that date has been an Individual Member of the Council. He was appointed Deputy of the NW Division for two years from June 1969 and Chairman of the NW Division for a further two years from June 1971. He was appointed NW Division representative on the Council of the Society from 1964, during which period he has been a member of the General Purposes and Finance and Conference and Publicity Committees. He was Deputy Chairman of the GP&F Committee, 1971/4. He was elected Honorary Treasurer to the Society in 1974/5 and re-elected for 1975/6, 1976/7, 1977/8 and 1978/9.

IAN B. ANDERSON, MRSH, represents the Scottish Division, NSCA. He is Environmental Services Officer with Inverclyde District Council.

THOMAS K. ASTON

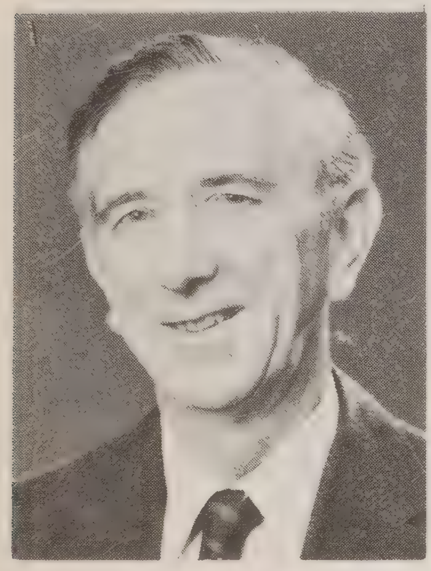
THOMAS K. ASTON, FRSH, MEHA, represents the South West Division, NSCA. He is Chief Environmental Health Officer, Woodspring DC. He has been a member of the NSCA Council, and of the General Purposes & Finance Committee, since 1972. He became a Member of the Council of the Royal Society of Health in 1977. He has pursued a Local Government career in environmental health since 1945. His principal interest is in professional training, air pollution and noise control. As CPHI for Bristol, he was involved in the pioneering monitoring activities for lead emissions from the Lead Smelter at Avonmouth, which culminated in the Windeyer Report (1972). He has been a part time Lecturer at Bristol University since 1971, an examiner for the Royal Society of Health Diploma in Air Pollution Control in 1971, and for the qualifying examinations of the Environmental Health Education Board in 1974.

MAX BEAUMONT

MAX BEAUMONT, FInstF, CIMGTechE, MIPI, represents the London & South East Division, NSCA. He was educated at Dulwich College and joined the family firm as an apprentice steeplejack. He served as pilot RAFVR 1940-1946. He joined the NSCA in 1965, was elected to the Council in 1972 and is current Chairman of the Technical Committee. He is founder member & Chairman of the Environmental Protection Equipment Manufacturers Association, a Council member of the British Flue & Chimney Mfgs Assoc., Past President of the National Federation Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group. He is a Member of eighteen BSI Technical Committees, and a holder of four British patents. He is Chairman of F.E. Beaumont Ltd.

EDGAR B. BRIGGS

EDGAR B. BRIGGS, CEng, MIGasE, FInstF, FInstPet, represents BP Oil Ltd. He has participated actively in the Society's interests since 1958 and been a member of the London and South East Divisional Council since 1977. His technical training was in the gas manufacturing and the coke-oven industries, followed by over twenty years in the petroleum industry, mainly on technical and environmental activities. He is a member of several industrial or professional institute clean air panels; a member of the Second Working Party on Grit and Dust Emissions, and also of the recent Working Party on Chimney Heights.



DR. FREDERICK A. BURDEN

DR. FREDERICK A. BURDEN, PhD, BSc, ARCS, DIC CEng, FIGasE, CChem, MRIC, represents the Institution of Gas Engineers. He was educated at Watford Grammar School and Imperial College, London, graduating in chemistry in 1940 and returning to research in combustion in 1946. He joined the Gas Light and Coke Company in 1948 for research into gas making and purification. He transferred to the Coke Laboratory, Watson House in 1953. He was responsible for work on the assessment and improvement of coke quality and coke-burning appliances, representing the Gas Council in developing British Standards for domestic coke. He is presently Scientific Secretary at Watson House. He has represented the Institution of Gas Engineers on the Council of the Society since 1962 and serves on the Technical Committee.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA. He has been a member of the East Midlands Division for eleven years and a Member of the Council of the Society for five years. He has been a Member of the Ashfield District Council and Kirkby-in-Ashfield UDC for thirteen years, was Chairman of the Kirkby-in-Ashfield UDC 1970/1, Chairman of the Kirkby-in-Ashfield UDC Health Committee from 1971-

74, and Chairman of the Ashfield DC Environmental Health Committee, 1974 to the present time. He has served as Justice of the Peace for six years.

JAMES C. CLANCEY

JAMES C. CLANCEY, OBE, FIPHE, FRSH, MIEvnSc, MAmerPHA, represents the London & South East Division, NSCA, and the Royal Society of Health. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health of the London County Council. He is Executive Vice-President of the Royal Society of Health; Vice-President and Chairman of Council of the Institution of Public Health Engineers; a member of Council of the Institution of Environmental Sciences and a Vice-President of the Environmental Health Officers Association. He was Chairman of the Council of the Society, 1975/6. He has for thirty years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

DEREK N. CLOUTING, BSc(Eng), CEng, FIEE, represents the Electricity Council. He is Deputy Marketing Adviser at the Electricity Council, Director of the Association of Short-Circuit Testing Authorities (Inc) and Director of the British Electrotechnical Approvals Board.

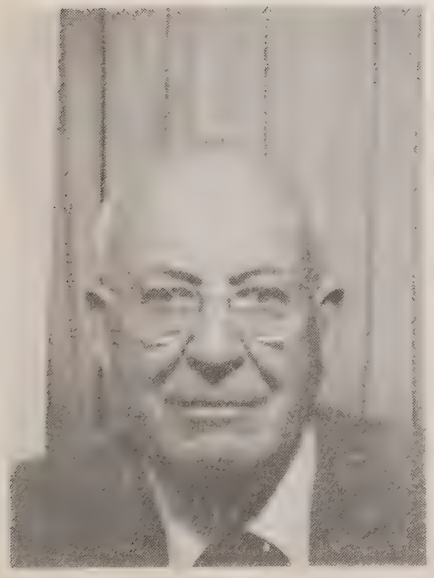
COLIN R. CRESSWELL

COLIN R. CRESSWELL, CEng, FInstF, MEHA, MIOA, represents the Northern Division, NSCA. He is the Secretary of the Northern Division and has been a Member of Council since 1976. He has been Chairman, North Eastern Branch, Institute of Acoustics for the past two years. He has been Principal Environmental Health Officer (Pollution Control), Newcastle upon Tyne since 1974, and for eight years previously was Divisional Officer responsible for Pollution Control in West Bromwich. He is author of a standard textbook on air pollution, numerous articles and papers and is a Royal Society of Health examiner. He was awarded a European Fellowship in 1972 and studied pollution control in West Germany. He was member of the Domestic Coal Consumers Council 1975/78, and is a member of the BSI Committee on Industrial and Neighbourhood Noise.

CLIFFORD D. DARLEY

CLIFFORD D. DARLEY, FRSH, FEHA, DEM, represents the North West Division, NSCA. He has long been actively involved with air pollution control, having first attended the Society's Conference in 1958. He has undertaken considerable lecturing and examining duties in various parts of the country and on taking up his appointment in the North West, immediately became a Member of the Divisional Council, serving as Chairman of the Divisional Council for the years 1976/7 and 1977/8. He was elected to the Council of the Society in 1975 and became a Member of the Parliamentary and Local Government Committee.

CHRISTOPHER C. DAVIS represents the British Steel Corporation. He has worked in environmental control in the iron and steel industry since 1966, initially with the British Iron and Steel Federation and from 1967 with the British Steel Corporation. He is currently Environmental Control Coordinator at BSC Head Office. He became a Member of the Council of the Society in 1975 and served on the Technical Committee from 1975 to 1978.


PHILIP DRAPER

PHILIP DRAPER, CEng, FIMechE, FInstF, is an Individual Member of the Society. He attended the City & Guilds Engineering College London 1921-23. He served his apprenticeship with John I. Thorneycroft, Southampton 1923-26, and worked for Vickers-Petter N.Z. & Ipswich, Petter, Yeovil, AEC Southall 1926-35. He was Technical Engineer (Fuels) with Shell Petroleum Co. London 1935-56,

KENNETH S. DUNN

and Technical Adviser (Fuels) with Shell-Mex & BP, London, 1956-62. He joined IMechE as a Student Member in 1924 and is now a Fellow of the Institute. MInstPet 1936-62, AIMarE 1940-62, FInstF 1950 to present. He represented Shell-Mex BP to the NSCA, 1956-1962. He was co-opted onto the NSCA's Technical Committee in 1962, and has been a Member of the Committee from 1971. He has been a Member of the Council of the Society from 1974, and was Chairman of Council, 1976/7. He attended the IUAPPA International Congress, Japan in 1977.

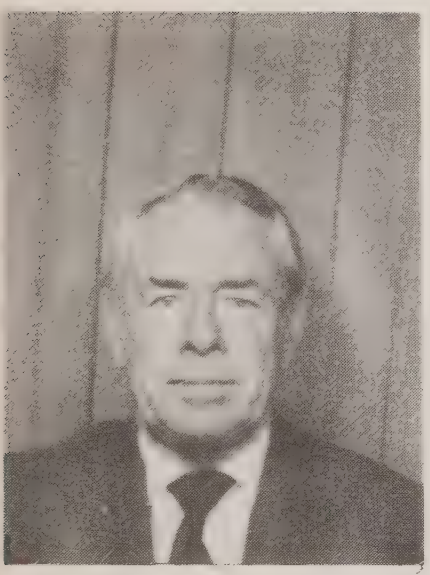
KENNETH S. DUNN, CEng, MInstF, represents EPEMA (the Environmental Protection Equipment Manufacturers Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co Limited of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Secretary of EPEMA in March 1973.

KENNETH R. ENDERBY

KENNETH R. ENDERBY represents the East Midlands Division NSCA. He has been City Environmental Health Officer, Peterborough City Council since 1974, and was previously Deputy Chief Public Health Inspector from 1961/74. He has been the representative of Peterborough City Council to the NSCA for 15 years, and a member of the East Midlands Division for 10 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference & Publicity Committee since 1974.

MISS MARY GEORGE

MISS MARY GEORGE, CBE, BA, Companion IEE, represents the Electrical Association for Women. She is an Individual life member of the Society. She was Chairman of Council 1975/6 and has been associated with the work of the Society for some 20 years. She retired from her post as Director of the Electrical Association for Women in 1976. She is currently Chairman of the Consumer Standards Advisory Committee of the British Standards Institution and a member of the Executive Board of the Institution; Member of Council of the Institution of Electrical Engineers; Member of the South Eastern Electricity Consultative Council; Member of the Industrial Tribunals Panel; Chairman of Council, Over Forty Housing Association for Women Workers.


HARRY GIBLIN

HARRY GIBLIN represents the Solid Smokeless Fuels Federation. He has spent all his working life in the solid fuel and solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 and in this position has helped Local Authorities in the implementation of their smoke control areas. He was appointed a Member of the Council of the Society in 1962 and serves on the Parliamentary and Local Government Committee.

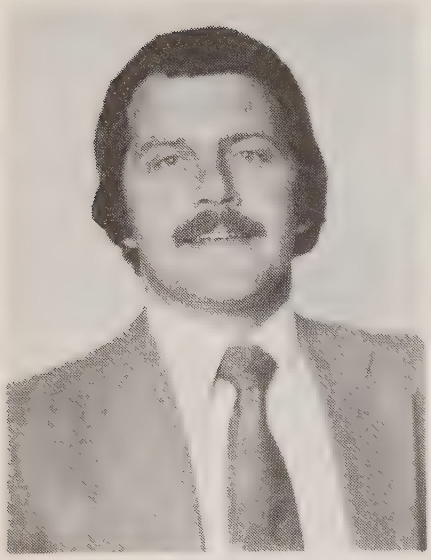
CLLR. DAVID F. HAYNES, JP, represents the East Midlands Division, NSCA.

EDWARD S. HERBERT, MEHA, represents the London and South East Division, NSCA.

MRS. DIANA HICKMAN

MRS. DIANA HICKMAN represents the Electrical Association for Women. She joined EAW as London/South East Area Organiser in February 1977, after spending many years working in scientific research on consumer products, with much interest in conservation. She became the representative to the NSCA for EAW on the retirement of Miss O. Kenworthy, in 1977.

JOHN L. KAY GREEN represents the Asbestos Information Centre. After fifteen years civil engineering experience with contractors and consultants he changed course to work in PR and publicity in the building and engineering industries. He was Group PRO with Turriff Construction Corporation 1962-68; Account Manager Interlink PR 1968-70; Head of Publicity Services, Morgan Crucible Co. Ltd. 1970-75, since when he has been appointed Group PR Manager, Cape Industries Limited and Committee Member of the Asbestos Information Centre, being nominated to the NSCA in 1976.



JAMES R. LAMONT

JAMES R. LAMONT represents the Northern Ireland Division, NSCA. He is Honorary Secretary of the Northern Ireland Division of the Society. He was educated at the Royal Belfast Academical Institution, qualified as a Public Health Inspector in 1962, employed by Belfast County Borough and subsequently Down County Health Committee. On re-organisation of local government he was appointed Principal Public Health Inspector (Pollution Control) with Eastern Group Public Health Committee (a consortium of five district councils). He was a member of EHOA and Centre Councillor of that body for ten years, past Chairman and Honorary Secretary of the Northern Ireland Centre. He represents the Association of Local Authorities of Northern Ireland on the UK Air Pollution Monitoring Management Group.

CYRIL LEWIS, JP, represents the South & Mid-Wales Division, NSCA.

IAN R. LIVERSIDGE, FRSH, MEHA, AMBIM, represents the North West Division, NSCA. As Director of Environmental Health, Bolton MBC, he is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough Council is actively pursuing a phased programme of domestic smoke control and allocates some £50,000 annually to this work. The Council has been part of the Warren Spring Heavy Metals Survey in urban areas, and under the direction of Mr. Liversidge, operates an Industrial Liaison Committee which seeks, with the co-operation of local industry, to evaluate and ameloriate the problems of industrial pollution. A major achievement has been the extremely high standards of pollution control at a newly established major motive power battery manufacturing plant, one of the largest in Europe.

IAN MacPHERSON

IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical Committee and is Vice-President of the Scottish Division of the Society, having been a Member of the Society for some eighteen years. He is a Member of the Clean Air Council for Scotland and a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

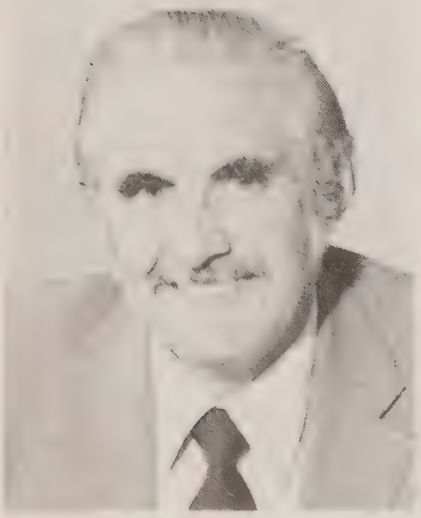
JOHN B. MARSH, FRSH, MEHO, represents the North West Division. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 20 years. He is a Member of the Royal Society of Health and a Member of the Environmental Health Officers' Association and has also been an Examiner on the Environmental Health Officers' Education Board for the last 10 years. He has been keenly interested in all forms of pollution and its prevention and has been a long standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

MRS. RITA McLUSKY represents the Women's Gas Federation and Young Homemakers.

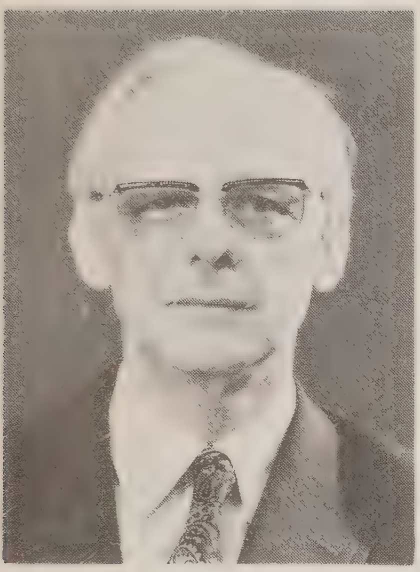
PATRICK McPARTLIN, CEng, MInstF, MIPlantE, AMBIM, represents the Scottish Division, NSCA. He is Managing Director, Scottish Rexco Ltd., and Executive Director of the National Carbonising Company Ltd.

Cllr. JOHN MERNAGH represents the Yorkshire and Humberside Division, NSCA. He is currently Chairman of the Division.

ALFRED G. O'GILVIE represents the London & SE Division, NSCA. He was formerly Principal Public Health Inspector in charge of Air Pollution, the London Borough of Southwark, and Asst. Chief Public Health Inspector (food and other services). Whilst in his former position he investigated and established the presence of massive lead pollution from local lead works in Bermondsey which was know nationally as the "Enthoven Incident". Local residents, to show their personal gratitude, elected him 'Honorary Member of Down-Town Tenants' Association'. Resulting from the incident procedures were evolved regarding environmental control of new lead refining works.


ROGER PANE

ROGER PANE, MInstM, represents the Low Temperature Coal Distillers Association. He is Director of Coalite and Chemical Products Ltd. He has been an Individual Member of the Society for many years and served as an elected representative of the East Midlands Division on the Council of the Society. He currently serves on the Parliamentary and Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.



ERIC A.K. PATRICK

ERIC A. K. PATRICK, BSc, CEng, FRIC, FIChemE, FIGasE, SFInstF, FCIBS, represents the British Gas Corporation. He is Director of Watson House, the British Gas research station in Fulham. He was educated at Christ's Hospital, Birbeck College and Battersea Polytechnic. He joined the Fulham Research Laboratories of the Gas Light and Coke Company in 1939 and worked in the coke group as a laboratory assistant, largely on small-scale gas producers. He was transferred to the industrial laboratory at Watson House in 1945 and was in charge of the laboratory from 1952-1962. In 1962 he was appointed Research Manager. He became Research and Development Manager in 1969 and Assistant Director (Research and Development in 1970). An active Member of the Institution of Chemical Engineers, he has also been President and a Member of Council of the London and Southern Junior Gas Association. He has been a Council Member of the Heating and Ventilating Research Association, and its successor, since 1966, being Chairman of Council from 1973-75. He is a Member of the NSCA's Technical Committee.

KENNETH H. PEARSON represents the Industrial Gas Cleaning Association. He is Managing Director of Sturtevant Gas Cleaning Limited.

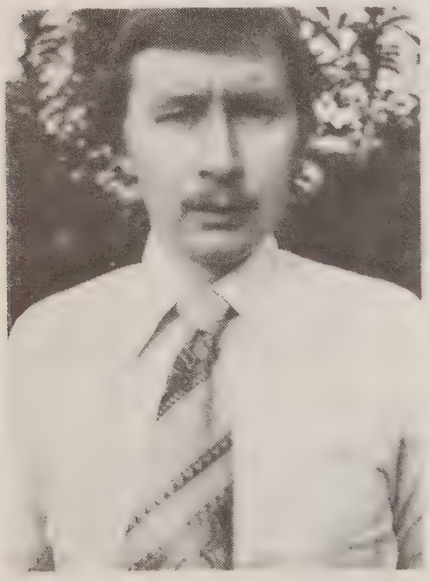
WILLIAM E. POLLITT, FEHA, MRSH, MInstSWM, represents the North West Division, NSCA. He is Honorary Secretary of the North West Division, and Assistant Environmental Health Manager, City of Salford.

LEN POOLE

CLLR. LEN POOLE, BEM, JP, represents the Northern Division, NSCA. He has been Chairman of the Northern Division and a Member of Council since re-organisation of local government. Also since that time he has been Deputy Chairman of the NSCA's Conference and Publicity Committee. He has been Chairman of the Environmental Health Committee, Middlesborough BC (since re-organisation) and Chairman of the Community Health Council, South Teeside (largest in Northern Region). He has been responsible in the last few years for persuading his Council to complete its domestic Smoke Control Programme by 1979 (in spite of financial cut-backs). He is Chairman of the Boroughs of Cleveland Pollution Group (Industrial Pollution).

GEORGE T. RANDALL

C LLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a member of the Society's Conference and Publicity Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past twenty eight years and is a former employee of The Ministry of Defence.


ALAN J. REES

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. In 1978 he was elected as Hon. Secretary of London, South East and Central Southern Divisions.

GEORGE ROBINSON represents the Yorkshire & Humberside Division, NSCA. He joined the staff of Sheffield Public Health Dept. in 1936 as a Probationary Sanitary Inspector and gained the qualifying certificate in that same year. He was appointed as a Sanitary Inspector to the Authority in 1939, was promoted to Superintendent Public Health Inspector in 1953, and became the first Chief Environmental Health Officer in Sheffield in 1972. In 1974, on local government re-organisation, a separate Environmental Health Department was maintained and he became a Chief Officer for that Department.

L. EWEN ROBSON

L. EWEN ROBSON, MRSH, MIOA, AInstF, represents the South West Division, NSCA. He was appointed Specialist Inspector for Atmospheric Pollution and Noise for Bristol in 1969. Since 1973 he has been the Assistant Chief Environmental Health Officer, Bristol City Council. He is a Member of the Environmental Health Officers' Association, and is on the Western Centres Technical Committee on Environmental Pollution. He is a Member of the Institute of Acoustics and has lectured extensively on both air pollution and noise topics at Bristol Polytechnic, Bristol and Southampton Universitites. He is currently Chairman of the Bristol Water Study Group, and a past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.

MRS. JOYCE SAUNDERS

MRS. JOYCE SAUNDERS, OBE, BSc, MInstF, AFIMA, represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1968 and also became a Member of the NSCA Council in 1968. She was appointed to the Domestic Coal Consumers Council in 1970 and to the Clean Air Council in 1977. She is a Lecturer at Brunel College, Bristol.

REV. BRIAN N. SHACKLETON represents the West Midlands Division, NSCA. He is a Methodist Minister.

RONALD F. SHAPTER

RONALD F. SHAPTER, FEHOA, represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He has been a Local Government representative to the Society since 1956, a member of the Divisional

Council from 1964, and was Hon. Secretary of the South East Divisional Council 1969-74. He has been Chairman of the London, South East and Central Southern Division from 1977. He has been a Member of the Council of the Society since 1969, was formerly a Member of the Conference and Publicity Committee and is now a Member of the General Purposes and Finance Committee. Whilst Chief Public Health Inspector of High Wycombe he drew up and was responsible for the implementation of the programme of Smoke Control Areas. Apart from the normal control of Industrial Smoke, a special study was made of the problems associated with the concentration of the furniture industry at High Wycombe and the burning of the resultant wood waste in many forms. Existing appliances were converted, or special wood burning furnaces, some dealing with several tons of wood waste per day, were installed.

WILLIAM N. SHIRES

WILLIAM N. SHIRES represents the North West Division, NSCA. From craftsman electrician he joined the Electricity Supply Industry in 1939 and held progressive commercial posts in the North Western Electricity Board and Merseyside and North Wales Electricity Board, becoming Deputy Chief Commercial Officer in 1970. He has a long interest in the environment and clean air, and is currently Chairman of the North West Division of the Society. He is a Chartered Engineer, a Member of the Institute of Electrical Engineers and a Member of the Chartered Institution of Building Services.

GEORGE C. STUBBS

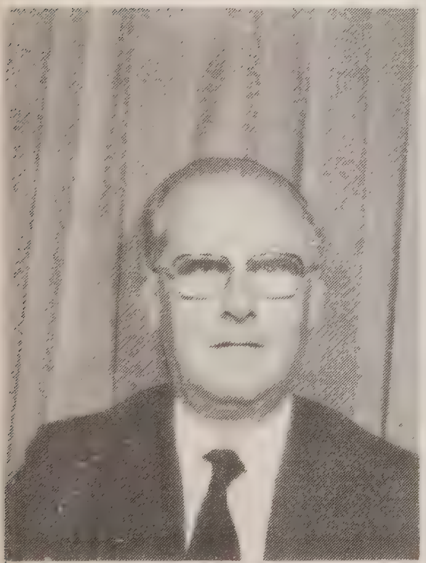
GEORGE C. STUBBS, FEHA, represents the London & South East Division, NSCA. He is a life member of the NSCA, and is a retired Divisional Public Health Inspector, having a special interest in air pollution control. He was elected to the Council of the South East Division at its first meeting, and has acted as Minute Secretary for many years.

He was elected to the Council of the Society in 1961 and is a member of the Technical Committee.

REV. CYRIL SUMMERS represents the South & Mid Wales Division, NSCA. He is a Presbyterian Minister of Religion, and an Associate of the Sea and Airport Health Authorities.

ALAN TRAYNOR

ALAN TRAYNOR represents the North West Division, NSCA. For many years he has been a Member of the North West Divisional Council. From 1963 until 1974 he was Honorary Technical Officer to the South East Lancashire and North Cheshire Consultative Committee for the Investigation of Atmospheric Pollution and Noise: he is now Technical Officer to and Chairman of the Technical Advisory Committee of the Manchester Area Council for Clean Air and Noise Control; since 1966 he has been a Member of the Clean Air Council. He was formerly Chief Public Health Inspector, Droylsden UDC, then of Middleton BC. He is now Director of Environmental Health Services, Rochdale MBC.


WILLIAM B. TWYFORD

WILLIAM B. TWYFORD represents the Yorkshire & Humberside Division, NSCA. He has been actively involved with the work of the Society for the past 20 years. For most of that time he has been a Member of the Yorkshire & Humberside Divisional Council, he is a past Vice Chairman of the Division, currently serves as Honorary Secretary. In recent years he has been Chairman of the Society's Conference and Publicity Committee. He was responsible for the introduction of smoke control within the former City of Wakefield, the last Order being made immediately prior to Local Government re-organisation.

ROBERT W. C. WHEATLEY represents the National Coal Board. He was born in Berwick-on-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he was appointed Technical Marketing Director. In 1978 he became Director (Administration and Technical) in which post his main responsibilities include staffing and administrative matters, the marketing aspects of coal preparation and quality control and the development of new types of solid fuel burning appliances and equipment. He has been a member of the Technical Committee of the Society since 1964 and a Member of the Council since 1966.

MRS. WINIFRED WILLETTS represents the West Midlands Division, NSCA. She has been a Member of Sandwell MBC for five years and was made a member of the Environmental Health Committee when appointed. She is a local magistrate and a Member of Midland Joint Advisory Council for Clean Air and Noise Control.

THOMAS W. YELLOWLEY

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to Newcastle upon Tyne City Council in May 1963. He is Chairman of the Health and Environment Committee and Chairman of the Hackney Carriages and Private Hire Sub-Committee. In addition, he is a member of the Policy Resources Committee, Social Services Committee and Residential Day Care Sub-Committee. He was Vice Chairman, Northern Division, NSCA in 1976 and Chairman, Northern Division in 1977. He is a Trustee and Deputy Chairman of the North Eastern Railway Cottage Homes and Benefits Fund.

ANNUAL REPORT & ACCOUNTS 1977/78

The year under review is not an easy one on which to report. Although we were still living under economic restraint, there were signs that things should improve in 1977. The moratorium imposed in December 1976 on all expenditure on smoke control would be lifted in June and it seemed that we should then be in for a period of progress. Further expectations were that some of the 94 recommendations made in the 5th Report of the Royal Commission on Environment Pollution, published in January 1976, might be implemented. There certainly had been no shortage of consultation papers and the Society, among many others, had spent much time and effort in the preparation of evidence and in replying to these. In the event, the moratorium was lifted and because there was a steady in-flow of smoke control orders, the Department of the Environment declined to issue a circular, as asked by the Society, to all District Councils pointing out that in fact the moratorium had ended. Certainly we were glad to see this trickle of smoke control orders, but the Society feel that there are still a number of District Councils which need stimulating into action. On the credit side, however, I can say that smoke control is now being carefully watched by the Clean Air Council who are carrying out a survey of recent progress with a view to firm advice being issued to local authorities concerned. Although we all welcomed the demise of the 'black' and 'white' areas, it does seem, in the absence of any other criterion, that this has left a certain amount of confusion in the minds of some Councils; indeed, some local authorities think that there is no further need to pursue a smoke control programme. The Society has been at pains to continue its propoganda and this has not been without success.

However, on the other side of the coin, there were three occasions during the year when local authorities sought revocation of existing smoke control orders. This was distinctly disquieting as the reason given in each case was that of expense. The first case, which was in Scotland, was handled by the Scottish Division of the Society very skilfully, and following a public enquiry, the existing orders were not revoked. In a further instance in the Midlands, the results of the public enquiry are still awaited. In the third instance, also in the Midlands, the Society got in touch with the local authority concerned and I am glad to say that the authority were persuaded to withdraw the application for the revocation order; so our work has not been entirely unsuccessful. But I would suggest to you that the very fact that three authorities sought revocation orders is an indication that perhaps the general public have forgotten about smoke control and its benefits, and need reminding of them.

It is sad that at the time of writing over two years after the report was issued, no action has yet been taken on the recommendations made under the chairmanship of Sir Brian Flowers, now our President. The study on air pollution was carried out as a matter of great urgency; it is sad that there is not the same urgency about implementing some of the proposals. Last year the Society, along with many other organisations, submitted comments on the consultation papers which the Department of the Environment issued. A great deal of time and trouble was taken over these consultation papers by a great many people. It is to be hoped that the Royal Commission's proposals, in the light of further information elicited by the consultation papers, will soon be implemented.

As regards the Society's other activities, the Annual General Meeting was held on Wednesday, 6th July at the Central Electricity Generating Board's lecture theatre in Sudbury House, London. The Annual Report and Accounts were presented and received and Sir Brian Flowers, FRS, the former Chairman of the Royal Commission on Environmental Pollution, was elected as President of the Society in succession to Professor P.J. Lawther. Mr. R.A.W. Hollingdale was re-elected to the office of Honorary Treasurer.

Following the business proceedings, the usual public meeting was held and this was addressed by Sir Brian Flowers on 'HMPI in Wonderland and Other Vexations'. A report on the Annual General Meeting and the text of the President's address, were published in full in the Autumn issue of Clean Air.

There was no Spring Seminar in the year under review. This was not because the Society have abandoned the idea of the Seminar, far from it. In fact the last Seminar was held in March 1977 and so was reported upon by Mr. Draper, my predecessor, and the next Seminar was in fact held on 5th and 6th April 1978 in Bristol and will be reported on by my successor in his report next year.

There was, of course, the Annual Conference, and after nine years it returned to Harrogate. It was held in the Royal Hall from 19th-22nd September. This was much earlier than usual and this was probably one of the reasons why the attendance was lower than in previous years. Undoubtedly the economic state of the country also contributed as well. Nevertheless, although the attendance was not high, the standard of discussion was. This was a very lively and interesting Conference and although, as ever, its programme did not please everybody, it did cover a lot of ground and cover subjects in which the Society must be interested if it is to keep its place in modern affairs. Smoke control is still important; we have made progress in smoke control; but there is still a long way to go and much to be achieved in the control of other pollutants. We still have a lot to learn and one of the Society's tasks is to provide its members with information which will enable them to judge for themselves the actions that must be taken to continue our work in the years ahead.

A full report of the Conference was published in the Winter 1977 issue of Clean Air and I will simply draw attention to one particular point here. Unfortunately Sir Brian Flowers, the new President of the Society, was unable to be present because of a long standing previous engagement. His place in the Chair was taken by the immediate Past President, Professor Lawther and the Mayor of Harrogate, Cllr W. R. Mather welcomed the delegates and opened the Conference. As Professor Lawther was presenting a paper at the first Session on the Tuesday morning, there could be no presidential address as such. In keeping therefore with the Conference theme, I presented a short paper on 'Clean Air in the United Kingdom - A Brief Survey' and this was followed by a paper on 'The Society and its

Future' by the Secretary General.

There is one significant event last year of which I must make particular mention. In the course of a discussion at a meeting of the Society held in the summer of 1977 at a time when the Queen's Jubilee Celebrations were still fresh in everyone's mind, it was suggested that 1977 was the jubilee year, or 25th anniversary of the great smog of 1952 in London and that perhaps this jubilee should also be celebrated. After discussion it became clear that perhaps there was some reason for celebrating, not the great smog itself, but the end of the smog in 1952 and the fact that the course of action initiated as a result of the smog was likely to mean that the smog of 1952 would probably be the last one of any magnitude in Britain. It was also realised that 1977 was the 21st anniversary of the Clean Air Act of 1956 and so there was a further reason for some form of celebration. Various proposals were put forward about the form the celebrations might take and perhaps inevitably someone asked whether it would not be possible to hold a dinner. Everybody thought this was a splendid idea but of course no one wished to pay for it!

However, the Central Electricity Generating Board said that they might be prepared to stand their share of the cost of a dinner provided that other fuel interests which supported the Society would be prepared to do the same thing. Accordingly, negotiations on this basis were opened with those concerned and all those approached agreed to support the project. So a dinner was held at the Stationers' Hall, in the City of London on the evening of Friday 9th December 1977. The President of the Society, Sir Brian Flowers, FRS was in the Chair and the principal guest and speaker was Professor P. J. Lawther. Guests included former Presidents and Officers of the Society, senior representatives and their guests from the fuel industries, representatives of Government and representatives from all Divisions of the Society. It was a most enjoyable evening at which many people who had worked hard over the years for the furtherance of clean air were able to meet and enjoy themselves.

The Society's thanks are due to many people, but they are best expressed in the words of our President, who said at the dinner 'that is why, on your invitation card, I invited you to come to this dinner, not only on behalf of the Society but also on behalf of the British Gas Corporation, BP Oil Ltd., the Central Electricity Generating Board, Esso Petroleum Co. Ltd., the National Coal Board and Shell UK Ltd. On behalf of the Society and all those fortunate enough to be present at this dinner, I would like to say how grateful we are to the sponsors for their generosity and support'.

The Council and its Committees, as usual, met regularly through the year. I think it will be clear from what I have already said, that they have been busy keeping abreast of changes and acting as a watch-dog in the interests of clean air. At its first meeting the Council elected me to the office of Chairman, an office which I have been very proud and honoured to hold.

The Conference and Publicity Committee has been fully occupied mainly in preparing the programme for the Conference at Harrogate, the Spring 'Workshop' at Bristol, the forthcoming Conference to be held in Brighton in October this year and the 8th Spring Seminar or Workshop which will be held in the spring of 1979 most probably at Warwick University. Although attendances at Annual Conferences have fallen considerably in the past few years, there are hopeful signs that things may start to improve at Brighton this year. Indeed attendance at the Seminar in April this year was much improved on the previous year, and we take this as a good omen. It seems that the Spring Seminar or Workshop should last no longer than two days and it also seems that there is a large measure of support for the type of "package-deal" which can be organised at a University during a vacation.

The length of the Conference at Harrogate was reduced by one day without really affecting the over-all content of the Conference. This practice will be repeated at Brighton this year.

As regards the work of the Parliamentary and Local Government Committee, of which I am the Chairman, I think the first part of this report covers a great deal of our activities during the period under review. Other subjects considered included fines for offences under clean air legislation, the sale and acquisition of unauthorised fuels in smoke control areas, and the submission of evidence to the Royal Commission on Environmental Pollution who are examining environmental pollution and agriculture.

The Technical Committee have continued their task of the production of a new booklet on 'Pollution from Road Vehicles' which is proving to be more time consuming and difficult than was at first envisaged. Progress is not as fast as we would like, but the booklet is now well on the way to completion. In July, the Committee held its meeting at the Institute of Sound and Vibration Research at the University of Southampton by kind invitation of Professor J. B. Large. Following the ordinary meeting of the Committee, Professor Large gave an explanatory talk about the Institute and the members of the Committee were then taken on a very interesting conducted tour of the Institute where it was possible to see many of the projects being carried out.

The General Purposes and Finance Committee have continued with their task of the management of the administration and financial affairs of the Society. As you are well aware, we had a bad year financially some two years ago and although the year following was better as a result of steps taken, I am glad to say that the year under review, from a financial point of view, has been very successful indeed. However, if we are to continue to be financially viable and have enough money to continue to operate properly, it will be necessary to continue the practice whereby subscriptions are reviewed each year and to ensure that these keep pace with inflation and rises in the cost of living.

I am very happy to be able to tell you that during the last 12 months, the increased activity in the Divisions, of which there were signs last year, has continued. Many interesting meetings have been held and visits made all over the country. This is most encouraging and I hope that the tempo will continue to increase, for it is in the Divisions that the strength of the Society lies and where most missionary work must be done.

Last year, Mr. Draper was able to report that the Soceity was becoming better known and recognised as an authoritative source of information in the field of environmental pollution. During the period under review, I am happy to say that I can confirm that this view was correct. As a result of such activities as the Harrogate Conference, the recent Workshop at Bristol and particularly the Clean Air Dinner, the Society has received much beneficial publicity. As ever, the staff at Brighton have dealt with a vast number of enquiries and demands for information ranging from industry to school children. There have also been complaints to be sorted out, lectures to be given, and broadcasts to be made.

With regard to our publications, I am glad to say that we have now reverted to publishing Clean Air four times a year and that the journal is now produced and printed at the Society's own headquarters in Brighton. This obviously gives us much greater flexibility over production and at the same time saves money. The new Members' Handbook was issued during the year and this will be published annually in future. The Reference Book will be published very shortly and orders are already being received for this.

The Society continues to have a good representation on outside bodies connected with the environment and the clean air movement. The Chairman of three of the four standing committees of the Clean Air Council are, for instance, provided from within the ranks of the Society. The number of members of the Society who are also members of the Standing Conference of Co-operating Bodies is very large and I have been very honoured to be Chairman of the Standing Conference for the last 12 months. The Society is also represented on the Committee for Environmental Conservation (CoEnCo) and is a member of the International Union of Air Pollution Prevention Associations (IUAPPA).

IUAPPA has long needed a permanent secretariat and during the course of the last year following the 4th International Clean Air Congress in Tokyo, the Society were asked to take on this task being suitably reimbursed for their work. After much discussion the Council agreed that it would be to the advantage of the clean air movement world-wide and to the advantage of the Society itself if it did assume the permanent secretariat of IUAPPA and as from 1st January this year the Secretary General and staff at Brighton are also providing the secretariat and administration for IUAPPA as well as for the Society. This, of course, does mean more work but undoubtedly this will enhance the Society's position in international circles.

Altogether, it has been an interesting year which I have enjoyed but which has entailed a certain amount of hard work. However, I have been helped in my task by the willing co-operation of all members of Council and of the various committees. I would like to thank them all and the Honorary Officers for all the help and support that they have given me during my term of office as Chairman. I would also like, on behalf of all members of the Society, and personally, to pay particular thanks to the Secretary General and all his staff at headquarters. Having been associated with the Society for the last 30 years I would like to conclude by expressing the opinion that the prestige of the Society has never been higher than it is today and the major credit for this must be given to the Secretary General who, whilst Presidents, chairmen, and indeed Executive Councils, come and go, remains at the helm to guide the Society and its Council on its right course.

T. H. Iddison
Chairman

REPORT OF THE HONORARY AUDITORS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have examined the Balance Sheet and annexed Income and Expenditure Account. In our opinion the Accounts comply with the Companies Acts, 1948 and 1967 and give a true and fair view of the state of the Society's affairs at March 31, 1978 and of its surplus for the year ended on that date.

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House
39/45 Finsbury Square,
London EC2A 1AE

5th May 1978

BALANCE SHEET

31st March 1978

		31.3.78		31.3.77	
FIXED ASSETS	Notes	£	£	£	£
OFFICE MACHINES AND FURNITURE	1				
As valued by the Secretary General as at 1.4.72	2	1,910		1,910	
Additions at Cost (1977/78-Nil)		5,201		5,201	
		7,111		7,111	
Less Depreciation (over 5 years)		6,848	263	6,218	893
LIBRARY BOOKS					
At Nominal Value			100		100
INVESTMENTS AT COST	3		363		993
Fixed Interest Stocks		3,270		3,270	
Ordinary Shares		10,426	13,696	9,698	12,968
CURRENT ASSETS					
Stock of Publications at Secretary General's Valuation		1,020		950	
Sundry Debtors		1,378		1,558	
Prepayments		927		189	
Bank Balances		23,362		13,870	
Cash in Hand		24		28	
Funds held by Divisions	4	709		-	
		27,420		16,595	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		5,541		2,678	
Net Current Assets			21,879		13,917
NET ASSETS			£35,938		£27,878

Represented by:

	31.3.78	31.3.77
GENERAL FUND		
Balance at start of year	19,800	20,542
Surplus/(Deficit) for the year	8,060	(742)
Balance at end of year	27,860	19,800
PREMISES FUND	8,078	8,078
	£35,938	£27,878

R.A.W. HOLLINGDALE - Honorary Treasurer

P.G. SHARP - Secretary General

INCOME AND EXPENDITURE ACCOUNT for the year ended 31st March 1978

		YEAR 77/78		YEAR 76/77	
INCOME	Notes	£	£	£	£
SUBSCRIPTIONS AND DONATIONS			32,209		28,682
CONFERENCES - Harrogate					
Edinburgh 1976/77					
Income		9,654		12,000	
Expenses	5	7,601	2,053	9,208	2,792
SEMINAR - Not Held 1977/78					
(Manchester 1976/77)					
Income		-		2,802	
Expenses	5	-	-	2,576	226
SERVICE CHARGES			1,946		-
SALES OF PUBLICATIONS			4,418		4,730
ENVITEC 1977			-		176
INVESTMENT INCOME					
Dividends (Gross)		1,711		1,522	
Interest		1,823	3,534	2,303	3,825
EXPENSES					
RUNNING COSTS			44,160		40,431
Salaries and Wages		27,449		29,438	
Less: Recharged to Conference and Seminar	5	5,490		5,887	
		21,959		23,551	
Staff Pension Scheme		124		3,020	
Rent, Rates, Light and Heat		2,414		2,354	
Insurance, Travel, Cleaning and General Expenses		5,948		5,441	
Depreciation: Office Equipment and Furniture	2	631		1,421	
Stationery/Supplies		857		530	
Provision for Doubtful Debts		(653)		590	
		31,280		36,907	
CLEAN AIR AND MEMBERS' HANDBOOK					
Printing, Postage etc		4,811		3,886	
Less Advertising Receipts		1,223		1,226	
		3,588		2,660	
INFORMATION, PUBLICITY SERVICES AND COST OF PUBLICATIONS		1,133		1,146	
DIVISIONAL GRANTS	4	99		460	
		1,232	36,100	1,606	41,173
SURPLUS (DEFICIT) FOR YEAR TRANSFERRED TO GENERAL FUND			£8,060		£(742)

NOTES TO THE ACCOUNTS 31st MARCH 1978

1. Lease:

The Society bought the lease of its Brighton offices (which is for 14 years from November 15, 1965) and the cost of £2,000 was deducted from the Premises Reserve Fund.

2. Office Furniture and Equipment:

Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and has been included in the Accounts at this figure. The valuation and subsequent purchases are being written off over five years.

3. Investments:

The market value of the Society's Investments as at	31.3.78 was	£22,069
	31.3.77 was	£18,479
	Increase	£ 3,590

The market value of Investments at 31.3.78 includes £840 for shares purchased during the year at a cost of £728.

4. Divisional Grants:

For the first time funds amounting to £709, held by the Society's 12 Divisions have been included in the Balance Sheet. The effect is to reduce the charge to the Income and Expenditure Account by the same amount.

5. Salaries and Wages Recharge:

The expenses of the Conferences and Seminar (1976/77 only) include 20 per cent of salaries apportioned in the estimated ratio of the numbers attending the functions as follows:-

	1977/78		1976/77
Conference - Harrogate	5,490	Edinburgh	5,003
Seminar	-	Manchester	884
	£5,490		£5,887

DIVISIONAL MEMBERSHIP & REPORTS

Division 1
SCOTTISH DIVISION
President:
Hon. Secretary: F.J. Feeley

The Division met on one occasion and the Executive Committee on a number of occasions during the course of the year.

It is with some regret that the Division had to cancel the one-day seminar which it proposed to hold in Falkirk in October, 1977. This was caused by circumstances outside our control but we hope to proceed with the Seminar in December of this year (1978).

The main work undertaken by the Division during the year has been an attempt to combat the sale of bituminous coal in smoke control areas. This unfortunate practice is on the increase in Scotland and representations have been made to the Crown Office with a view to encouraging the Courts to make fuller use of the powers available to them under the Clean Air Acts. However, a great deal more success has been achieved by the Division threatening to press for legislation for the licensing of coal merchants. This was done by a statement to the newspapers and, as a result, the National Secretary of the Approved Coal Merchants Scheme came to Glasgow to discuss the matter. This was followed by a meeting between the Secretary of the Division and the Independent Chairman of the Scheme which resulted in the Scheme adopting some of our suggestions for tightening up their procedures in relation to offending coal merchants. However, we feel that much more needs to be done and are continuing to press for more to be done.

F.J. Feeley
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
  (Scottish Division)
Edinburgh, City of
Glasgow, City of
National Coal Board
South of Scotland Electricity
  Board
The Scottish Gas Board

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Hamilton District Council
Inverclyde District Council
Inverness District Council
Kirkcaldy District Council
Midlothian District Council

Monklands District Council
Motherwell District Council
Renfrew District Council
Stirling District Council

CORPORATE MEMBERS

Greater Glasgow Health Board
Lothian Health Board
North of Scotland Hydro Electric Board
Scottish Rexco Ltd.
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Anderson, R.P.
Christie, J.H.
Dunlop, W.A.
Foreman, J.
Gibb, Dr.W.
Hally, J.
Jackson, J.
MacPherson, I.
McGhie, J.R.
Ramsey, Captain E.C.

Division 2
NORTHERN IRELAND DIVISION

Chairman: R. Campbell Brown
Hon. Secretary: J.R. Lamont

The Northern Ireland Divisional Council has been aware of the lack of activity of the Society in Northern Ireland and has now made plans to change that state of affairs. Mr. R. Campbell Brown has been re-elected as Divisional Chairman and Mr. J. Stanley Gardner has been elected deputy Chairman. The other members of the Divisional Council are Ms. K.H. Lynas, J.G. Getgood, R. Dummigan, D. Hanna, E.N. Smythe, C.S. Walkington, J.J. Patterson, M. McCullagh and Dr. J. MacTaggart.

It is proposed to hold a Divisional Meeting in the Autumn and also to consider holding a one day seminar in the spring of 1979 as had been done in former years.

The Division welcomes the introduction of new legislation associated with the work of the Society. The Pollution Control and Local Government (N.I.) Order, 1978 will bring the legislative control into line with that pertaining in the rest of the United Kingdom.

J.R. Lamont
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Belfast, City of

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council

Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPORATE MEMBERS

Eastern Health & Social Services Board

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Burke, V.I.
Cave, S.A.
Ellison, C.A.
Hanna, B.P.
Lynas, K.H.

Division 3
NORTHERN DIVISION

Chairman: Cllr. L. Poole, BEM, JP.
Hon. Secretary: C.R. Cresswell

Forty members attended the Annual General Meeting of the Northern Division which took place at the University of Newcastle upon Tyne on 22nd June, 1978. As the result of a ballot, Councillor L. Poole, B.E.M., J.P., was re-elected as Chairman and Divisional Representative to serve on the Council and Mr. L.Mair, O.B.E. and Professor P.C.G. Isaac were re-elected as Vice Chairmen.

The Chairman in his remarks drew attention to the fact that although there were now two authorities in the region who has completed smoke control programmes, viz. Middlesbrough and Newcastle upon Tyne, it was unfortunate that many others had failed to make much progress. Councillor Poole suggested that if it would assist any of the delegates in persuading their authorities smoke control was worthwhile, a meeting or visit of the Society could be arranged to take place in their particular town.

The Secretary in his Annual Report reviewed the year's activities of the Society and its four Committees and detailed the matters discussed by the Division Council. It was particularly noted that the Department of the Environment, as a result of representations by the Northern Division, has recently decided to resuscitate the Joint Clean Air Committee for the North East.

Dr. A.W.Davison of the Plant Biology Department of the University of Newcastle upon Tyne gave an extremely interesting illustrated talk on 'The Ecological Impact of Air Pollution on Tyneside'.

During his talk Dr. Davison described in some detail the three main aspects of research he and his colleagues were engaged in,
(a) fluorine effects, where daily monitoring had shown that fluorine

levels in the grass varied considerably, whereas much research work in the past to establish satisfactory levels had relied on monthly monitoring. Attempts were now being made to establish a correlation between HF levels in the atmosphere and in the grass; (b) the effect of ethylene, where monitoring around the University had shown concentrations varying from 0.02 to 0.04 p.p.m. peaking around noon and late afternoon, but sufficient to cause plant damage; (c) the general effects of air pollution in the Tyne Valley, to study which fifteen sites had been established where pollutants and their effects on vegetation could be much more effectively monitored than in the laboratory.

The delegates were given an opportunity to visit the laboratories where they could see research work proceeding in relatively new wind tunnels. These tunnels gave a much more accurate spread of a pollutant amongst the plants under fumigation compared with the older chest equipment where much of the pollutant in use tended to adhere to the surface of the soil and the walls of the chest.

C.R. Cresswell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Teesside Division)
Central Electricity Generating Board (North Eastern Region)
National Coal Board
Newcastle Upon Tyne, City of
Northern Gas Board
Sunderland Borough Council

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow in Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
Middlesborough Borough Council
North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Wansbeck District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (Northern Region)
Nailsea Engineering Ltd.
North Eastern Electricity Board
Proctor & Gamble Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Calvert, Mrs.M.R.
Carr, W.
Cayton, S.
Chambers, A.
Cosgrove, J.
Eve, Mrs.M.E.
Graham, J.V.
Issac, Prof. P.C.G.
Mair, L.

Reece, R.
Spriggs, Dr.E.A.
Walker, A.S.
Wilkinson, J.R.
Young, B.N.

Division 4
NORTH WEST DIVISION

Chairman: W.N. Shires
Hon. Secretary: W.E. Pollitt

The Annual General Meeting of the North West Division of the National Society for Clean Air was held at Liverpool Airport on Wednesday, 6th July, 1977, after which members were privileged to hear Mr. G. Holmes, M.S.E.E., M.E.H.A., Vice President, Local Authorities Aircraft Noise Council, Chief Environmental Health Officer, Reading.

The Divisional Council met on three occasions during the year and at the first meeting held at MANWEB, Sealand Road, Chester, Mr. W. Shires was elected Chairman of the Divisional Council, and Mr. John Teale, Institute of Gas Engineers was elected Deputy Chairman.

Mr. H. Clusky was re-elected as Honorary Treasurer and Mr. W.E. Pollitt was re-elected Honorary Secretary of the North West Division, respectively. The policy of the Divisional Council is to involve as many of the Divisional members as possible in the Divisional activities and with this policy in mind members were given the opportunity to visit the following premises and processes of interest:

United Glass, St. Helens	9th November 1977
Pilkington Glass, St. Helens	23rd November 1977
British Rail, Crewe	14th February 1978
I.C.I., Buxton	27th April 1978

The technical visits to United Glass and Pilkington at St. Helens gave members an insight into modern techniques involved in glass bottle and sheet glass production.

The visit to British Rail, Crewe, was of great interest and displayed to members the vast organisation of technical "know-how" in the maintenance and construction of the modern diesel train.

The I.C.I. Quarry at Tunstead, Buxton, which was visited by our members was also of great interest from the point of view of the various problems associated with limestone quarrying, i.e. noise, dust and grit, and landscaping.

During the year the Division's officers have been involved in educational talks to groups of all kinds, Towns Womens' Guilds, Rotary Clubs and Schools; this is an essential part of the work of the Division and ensures that the cleaner air we have won is not lost through lack of interest and enthusiasm.

W.E. Pollitt
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bolton Borough Council
Central Electricity Generating Board (North West Region)
Cheshire County Council
Liverpool, City of
Manchester, City of
Mather & Platt Ltd.
National Coal Board
North Western Electricity Board
North West Gas Board
Salford Metropolitan District Council
Sefton Metropolitan District Council
Shell Chemicals Ltd.
Stockport Metropolitan Borough Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Council
Halton District Council
Hyndburn District Council
Knowsley Metropolitan Borough Council
Macclesfield District Council
Oldham Metropolitan Borough Council
Pendle District Council
Rochdale Metropolitan District Council
Rossendale Borough Council
South Ribble Borough Council
St.Helens District Council
Tameside Metropolitan District Council
Trafford Borough Council
Warrington Borough Council
West Lancashire District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (North West Region)
Greater Manchester Council for Clean Air & Noise Control
Macclesfield Civic Society
Merseyside & North Wales Electricity Board
Sutcliffe Speakman & Co.Ltd.
The Woolton Society

INDIVIDUAL MEMBERS,LIFE MEMBERS,

Amery, A.J.T.
Barnes, W.
Baxter, T.
Behrens, A.G.
Brown, P.S.
Bulcraig Dr.W.R.
Cass, H.V.
Chandler, Professor T.J.
Christian, F.V.

Clusky, H.
Cook, Miss H.M.
Cresswell, R.B.
Evans, T.
Fallows, W.B.
Franklin, E.J.
Franklin, N.J.
Gee, Mrs.J.
Gee, J.
Hall, A.
Halliday, A.C.
Hayhurst, H.
Hayhurst, Mrs.K.M.
Heald, Dr.G.E.
Hendy, Dr.B.
Hinds, L.R.
Horton, P.H.
Hollingdale, R.A.W.
Hough, D.A.
Jackson, C.L.
Jewsbury, S.
Kitchener, Earl
Leech, Dr.P.W.
Lloyd, A.
Lowe, T.H.
Mather, Sir William
McGauley, H.J.
Parsonage, H.
Pollitt, W.E.
Potter, N.M.
Richards, J.E.
Shaw, Mrs.M.
Stanyard, R.J.
Sutcliffe, K.S.
Taylor, A.
Thomas, F.L.
Vanstone, H.B.
Wall, E.M.
Winder, F.

Division 5
YORKSHIRE & HUMBERSIDE DIVISION

Chairman: Cllr. J. Mernagh
Hon. Secretary: W.B. Twyford

During the Society's Annual Conference held at Harrogate in the Autumn of 1977, there was a rallying call from several delegates for the Society to renew its activities in connection with the elimination of smoke from domestic chimneys. During a period extending over several years in the 1950's and 1960's this had been the main objective of the Society. Recent years have seen this emphasis on domestic smoke transfer to the more complex problems of industry. The plea at Conference was that the Society should focus attention once again on the fact that there were still large areas of the country that were not subject to smoke control.

The Divisional Council had this in mind in planning the programme of activities for the year. The meeting in Bradford on 24th January 1978 was addressed by Mr. H. Gilbin, the General Manager of the Solid Smokeless Fuels Federation, whilst a visit to Drax Power Station on 9th May 1978 concentrated on another energy source essential to the domestic campaign. The Divisional Council also visited the B.C.R.A. establishment at Chesterfield, where unfortunately it was not possible to accommodate a full open meeting.

The Division is now co-operating with the Yorkshire and Humberside Pollution Advisory Council on the Development of an exhibition unit which it is hoped will be available for showing at key centres in the coming year. An approach is to be made to all local authorities within the Division encouraging them to continue their clean air activities until the job is completed.

A matter of regret is the lack of support extended to the Society in Yorkshire and Humberside. We have been successful in persuading most authorities in the area to become members, and for that I am grateful, but in many instances it is paper membership not backed up by attendance at meetings.

Average attendance at an open meeting is between 30 and 40. This must be viewed against a total membership of 19 local authorities each of which can send up to four representatives, 13 industrial members and 23 private members. This poor attendance makes it difficult to invite speakers when an audience cannot be guaranteed.

Towards the end of the year Councillor B. Dwyer, a divisional representative on the Executive Council of the Society died. His wisdom and counsel at our meetings will be greatly missed.

On a happier note it is pleasing to be able to report that Mr. Len Eastwood, a former Chairman of the Division, has been elected a Vice President of the Society.

W.B. Twyford
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bradford Metropolitan Borough Council
British Steel Corporation Sheffield Division
British Steel Corporation Scunthorpe Division
Doncaster, Metropolitan Borough Council
Kingston Upon Hull, City of
Kirklees, Metropolitan Borough Council
Leeds, City of
National Coal Board
North Eastern Gas Board
Sheffield, City of
South Yorkshire County Council
Wakefield Metropolitan Borough Council
West Yorkshire County Council
Yorkshire Electricity Board

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Calderdale Metropolitan Borough Council
Cleethorpes District Council
Grimsby Borough Council
Harrogate Borough Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe, Borough Council
Selby District Council
York, City of

CORPORATE MEMBERS

British Achenson Electrodes Ltd.
Central Electricity Generating Board
Universal Machinery & Services Ltd.
Yorkshire & Humberside Pollution Advisory Council

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Ball, J.D.
Bell, T.R.H.
Earnshaw, D.N.
Etherington, H.
Fitzpatrick, Miss C.
Fleming, I.
Gittins, M.J.
Hackney, E.S.
Hutton, Dr.K.
Jones, L.
Leadbeater, Dr.B.
Marshall, G.C.
McLaughlin, D.F.
Miller, Dr.J.E.
Perry, A.W.
Reynolds, F.
Saword, A.C.
Sewell, Dr.P.
Store, N.J.
Taylor, G.
Tomlinson, E.S.
Wakefield, D.J.
Winfield, E.J.
Wraith, M.D.

Division 6

WEST MIDLANDS DIVISION

Chairman: Cllr. G.T. Randall
Hon. Secretary: C.C. Brookfield

I am pleased to report at the end of my first year as Honorary Secretary of this Division that the past twelve months have been the most active since Local Government reorganisation.

The year began with a Divisional Council Meeting at Oldbury when it was decided that, instead of using Birmingham as a central base for our meetings, we should ask member Local Authorities and companies to provide venues and/or speakers for meetings and this was done most successfully on four occasions.

Our first meeting in May was held in the ancient Guildhall in the City of Worcester, when the speaker in the morning session was Mr. M.J. Fisher, Chief Systems Engineer, Heenan Environmental Systems Ltd., who gave a most interesting paper entitled "A review of refuse incinerator stack emissions", the full text of which was published in the Spring 1978 edition of "Clean Air".

Following lunch members toured the Royal Worcester Porcelain Works where gas-firing of tunnel kilns is now the order of the day. Sadly there were no signs of a coal-fired bottle kiln as a reminder of how things used to be.

Our second meeting was held at Coventry in July, when in the morning members toured the West Midlands County Council Waste Reduction Unit, a modern refuse incineration plant handling up to 120,000 tons of refuse per year. To offset some of the costs special ancilliary plant has been incorporated to raise steam which is then sold to the local car works.

In the afternoon members heard two papers on the subject of "Noise on Construction Sites", by Mr. C.N. Penn, Assistant Director of Environmental Health Services, and Mr. D. Kennedy, Divisional Environmental Health Officer (Pollution Control), City of Coventry. Mr. Penn dealt with the legal implications of the subject and Mr. Kennedy the practical aspects.

A vigorous and informative discussion followed with the result that it was suggested that there should be some pooling of information with regard to the setting of noise levels, screening and silencing of machinery. This would be advantageous as many local authorities deal with the same large construction companies throughout the Division.

For our third meeting members travelled down the M5 motorway in appalling weather to be guests of the National Coal Board at the Coal Research Establishment, Stoke Orchard, near Cheltenham. Members who braved the tempest were well rewarded with a visit of great interest, which included an insight into the work at present being carried out on fluidised bed combustion. We were also honoured on that day the presence of the Secretary General of the Society, Rear Admiral P.G. Sharp.

Our final general meeting of the year took place in Sandwell, when Mr. K.J. Verrill, Chairman of the Environmental Control Committee of the Asbestosis Research Association gave a comprehensive illustrated talk on the subject of Asbestos, including the medical aspects, air quality standards, and the work required to achieve these.

I am indebted to the Local Authorities at Worcester, Coventry and Sandwell and to the National Coal Board who provided venues for meetings and to the speakers, who must be congratulated on the quality of their papers.

In addition it was mutually agreed that, where possible, joint meetings should be held between this Division and the Midlands Joint Advisory Council for Clean Air and Noise Control. Members of the latter organisation joined us at Sandwell for the meeting on Asbestos, and our members were invited to two meetings organised by the M.J.A.C. at the British Steel Works, Bilston, and at Lichfield, when Mr. Hestor of West Midlands Gas gave a paper entitled: Environmental Aspects of the Design, Siting and Operation of Gas Compressor Stations.

C.C. Brookfield
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Coventry, City of
Dudley Metropolitan Borough Council
Midlands Electricity Board
National Coal Board
Sandwell Metropolitan Borough Council
Stoke-on-Trent, City of
Walsall Borough Council
West Midlands Gas Board
Wolverhampton Metropolitan Borough Council

LOCAL AUTHORITY MEMBERS

Hereford, City of
Newcastle Under Lyne Borough Council
North Warwickshire District Council
Nuneaton Borough Council
Rugby Borough Council
South Staffordshire District Council
Stafford Borough Council
Tamworth Borough Council
Warwick District Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

The University of Aston in Birmingham
Cradley Boiler Co.Ltd.
Guest Keen & Nettlefords Ltd.
Lodge-Cottrell Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Busby, H.G.T.
Cawley, Lady
Cookerham, Dr.R.G.
Darnell, J.R.
Fisher, M.J.
Fisher, P.S.
Gillett, J.A.
Grimmett, P.H.G.
Guy, Miss J.
Hawksley, P.G.W.
James, E.N.
James, R.F.
Longley, J.C.
Lowbridge, H.E.T.
McNulty, M.F.J.
Owen, A.G.
Reynolds, K.
Roberts, R.E.J.
Sulway, Mrs.K.J.
Taylor, C.B.

Division 7
EAST MIDLANDS DIVISION
Division 8
EASTERN DIVISION

Chairman:
Hon. Secretary: E.F. Raven

Reviewing our activities over the year, we have had our normal quota of Divisional Meetings, and there have been three meetings of the Divisional Council.

The 1977 AGM was held in Peterborough, when in our morning session we had the Business Meeting followed by a paper by Mr. Ian Holmes of High Peak Borough Council. Mr. Holmes dealt with pollution in Rural Areas, and was, to a large extent, repeating the paper given to the Annual Conference in Edinburgh in 1976, which many members had not heard and hence had not seen the excellent slides which supported the paper.

After an excellent lunch, kindly provided by the City of Peterborough, we had a talk on the problems of European Community proposed legislation on Air Pollution Control as it affected the UK approach to the subject. This talk was given by Mr. J. Thompson, then recently appointed Assistant Secretary at the Department of the Environment.

Our Autumn meeting took us to Mansfield where we were again given a warm Civic Welcome and heard from Mr. R. Aldred and Mr. G. Highley, two Senior Officials of the National Coal Board, papers on ventilation of coal mines and the ways in which the mining industry seeks to remain a good neighbour to the local community.

Our visit to Sutton in Ashfield in April was marked (though not marred) by a blizzard which managed to continue on and off throughout the day. This meeting was devoted to Noise, and papers were given, by Mr R. Payton (one of the Ashfield District Council's Environmental Health Officers), followed by Mr. K. Bird and Mr. J.T. Smith of Rolls Royce, who talked on the work carried out to quieten aero engines. After lunch at the College of Further Education, we went to the Rolls Royce factory at Hucknall to see soundproofing materials being made and also to visit the test beds. The latter, though interesting proved to be somewhat exposed on that type of day.

The Divisional Council continues to meet at Kelham Hall and in addition to all the routine matters, has dealt with matters as widely separated as Open University Broadcasts on Air Pollution and dangers from cremation of bodies containing pacemakers.

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
(Chemicals Division)

British Steel Corporation
(Tubes Division)

Central Electricity Generating
Board Midlands Region

Coalite & Chemical Products Ltd.
East Midlands Electricity Board
East Midlands Gas Board
Leicester, City of
National Carbonising Co.Ltd.
National Coal Board
Nottingham, City of
Rolls-Royce Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston District Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash District Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak District Council
Hinckley & Bosworth District Council
Huntingdon District Council
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough District Council
West Derbyshire District Council

CORPORATE MEMBERS

Low Temperature Coal Distillers Association of Great Britain Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Brown, J.A.
Catlow, J.
Crowther, Dr.J.S.
Davies, D.
Drabble, G.
Duncalf, R.C.
Hall,J.E.
Harper, A.R.W.
Hunt, Dr.J.C.R.
Inglefield, Mrs.E.J.
Jones, B.T.
McDonald, J.
Mulholland, M.J.
Riley, R.V.
Robinson, A.Lister
Shanks, J.I.
Stewart, Mrs.E.E.
Turner, Miss H.E.
Turner, T.Henry
Vulliamy, N.M.E.
Waring, F.L.
Weldon, Miss G.M.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Eastern Electricity Board

LOCAL AUTHORITY MEMBERS

Basildon District Council
Braintree District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich, City of
Southend-on-Sea Borough Council
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Co.Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Adams, A.R.

Chumley, R.G.
Dobson, P.F.
Goodfellow, J.
Parsons, E.
Stephenson, Dr.R.J.
Wade, J.T.
Wakefield, D.J.

Division 9
LONDON & SOUTH EAST DIVISION
Division 10
CENTRAL SOUTHERN DIVISION
Chairman: R.F. Shapter
Hon. Secretary: A.J. Rees

A small party consisting of 15 members and representatives visited the British Gas Corporation Research and Development Division at Watson House, Fulham, on 6th October 1977. The visit commenced with a showing of a film, after which a detailed tour of some of the many laboratories took place. The amount of research which was taking place in order to improve the safety and efficiency of gas appliances was very impressive. Ample opportunity was given for discussion with senior members of the staff towards the close of the visit. The hospitality, which included coffee, lunch and tea, was very much appreciated by the visitors.

An Open Meeting at BP House, Victoria Street, London, was arranged to take place on 23rd February 1978. Unfortunately, owing to lack of support, the meeting had to be cancelled.

The Annual General Meeting of the Divisions was held at BP House, Victoria Street London, on 24th May 1978, when Mr. R. Shapter was again elected Chairman. Brian Upton retired from his position as Secretary and tributes were paid to his sterling work for the Society. The Chairman made a presentation to him to show the Divisions appreciation. After the business meeting a talk was given by Mr. J. Thompson of the Department of the Environment on the subject of Pollution Problems and Government Policy. This talk resulted in a very lively and interesting discussion in which a large proportion of those present participated.

A.J. Rees
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Barnet, London Borough of
Brent, London Borough of
British Gas Corporation
British Petroleum Co.Ltd.
B.P.Oil Ltd.
British Steel Corporation
Bromley, London Borough of
Central Electricity Generating Board

Coal Merchants Federation of Great Britian
Courtaulds Ltd.
Ealing, London Borough of
Eastern Gas Board
Electricity Council
Enfield, London Borough of
Environmental Protection Equipment Manufacturers Association
Esso Petroleum Co.Ltd.
Greater London Council
Imperial Chemical Industries Ltd.
Industrial Gas Cleaning Association
Institute of Petroleum
Lambeth, London Borough of
London, Corporation of
Mobil Oil Co.Ltd.
National Coal Board
North Thames Gas Board
Shell International Petroleum Co.Ltd.
Shell U.K.Oil Ltd.
South Eastern Gas Board
Texaco Ltd.
Wandsworth, London Borough of

LOCAL AUTHORITY MEMBERS

Adur District Council
Ashford Borough Council
Bexley, London Borough of
Brighton Borough Council
Broxbourne Borough Council
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford District Council
Dover District Council
Eastbourne Borough Council
Elmbridge District Council
Epsom & Ewell Borough Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hillingdon, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, London Borough of
Kingston Upon Thames, London Borough of
Lewes District Council
Lewisham, London Borough of
Medway Borough Council
Merton, London Borough of
Mid Sussex Borough Council
Redbridge, London Borough of
Reigate & Banstead Borough Council
Richmond Upon Thames, London Borough of
Southwark, London Borough of
Surrey Heath District Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Watford Borough Council
Waverley Borough Council
Welwyn Hatfield Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Advance Linen Services Ltd.
Asbestos Information Centre
Atkins, W.S.Group Ltd.
Blue Circle Industries Ltd.
British Independant Steel Producers Association
Brookway Engineers Ltd.
Buckle, G.H. & Partners
Caltex (U.K.) Ltd.
Cleerburn Ltd.
Confederation of British Road Passenger Transport
Dust Suppression Ltd.
Electrical Association for Women
Englehard Sales Ltd.
Environmental Health Officers Association
Flakt Ltd.
Flaregas Engineering Ltd.
A.Guinness, Son & Co. (Park Royal) Ltd.
Institution of Gas Engineers,The
London Electricity Board
London Transport
McCrone Research Institute Ltd.
Royal Society of Health

Seltec, South East London College
Solid Smokeless Fuels Federation
South East Electricity Board
Sumner, G.& Partners
The British Sulphur Corporation Ltd.
Tottenham College of Technology
Women's Solid Fuel Council
Women's Gas Federation and Young Homemakers

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Ackworth, Miss E.A.
Ades, T.R.
Barber, D.
Barnes, K.
Beaumont, M.
Bond,Prof G.G.
Boult, Sir Adrian C.
Bradshaw, N.F.
Brown, H.
Brown, T.J.
Buist, Commander C.
Butler, J.W.
Carter, Dr.J.S.
Catt, L.
Chandler, T.J.
Chatfield, A.J.
Clancey, J.
Coker, W.G.
Colville, Lt.Com. R.F.
Comer, P.J.
Courtier, G.B.
Craxford, Dr.S.R.
Crumpler, K.A.R.
Day, M.R.
East, R.G.
Eaton, Dr.F.J.
Ellis, P.T.A.
Elsworth,Mrs.F.S.
Farrell, J.
Fisher, A.H.
Fitzgerald, P.T.
Forrester, Dr.C.
Gandy, Miss R.L.
Garland, G.E.
Garland, P.
George, Miss M.
Gillett, I.
Gimpel, Mrs.C.
Goldsmith, A.
Grant, P.M.
Greenhead, E.
Hamilton, Dr.P.M.
Held, P.E.J.
Henson, C.G.
Hickman, Miss.V.
How, M.D.
Iddison, T.H.
Ingus, Miss A.M.
Jackman, F.A.
James, B.W.
Jellis, F.
Langwell, W.H.
Lax, Mrs.G.
Lees, B.
Lloyd, Miss P.
Lord, D.G.
Marsdin, R.
Maynard, M.J.G.
McCormack, J.S.
Menuhin, Yehudi
Miles, S.E.
Monkhouse, Dr.A.C.
Moores, A.R.
Mowle, C.R.
O'Gilvie, A.G.
Paddock, P.B.
Parker, Dr.A.
Porter, D.A.
Putnam, R.V.
Rice, A.P.
Rosling, Miss E.M.
Sandford, L.M.
Scorer, Professor R.S.
Seale, R.J.
Sehter, L.
Selway, C.R.
Shillito, D.E.
Shoham, J.
Specher, R.
Stoddard, D.E.
Stubbs, G.C.
Sullivan, J.S.
Sutherland, Miss E.A.
Todd, G.F.
Tomi, D.T.
Train, Dr.D.
Turner, Dr.W.C.
Vine, Mr.& Mrs G.M.
Watson, Professor H.E.
Weldon, S.
Wermann, J.C.

Westbrook, J.
Whittingham, J.T.
Wigan, H.N.
Wooldridge, K.G.W.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Southern Electricity Board
Southern Gas Board

LOCAL AUTHORITY MEMBERS

Aylesbury Vale District Council
Bracknell District Council
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Havant District Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Slough Borough Council
Southampton, City of
South Bedfordshire District Council
South Oxfordshire District Council
Vale of Whitehorse District Council
Wycombe Borough Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
Metal Box Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Armstrong, F.W.
Bartlam, J.N.
Billington, N.J.
Bradbury-Williams, J.C.
Bridgen, R.F.
Bryant, Miss P.M.
Combey, W.
Cowling, D.W.
Davies, P.M.
Dugdale, Mrs.B.
Haywood, L.H.
Hinde, Dr.P.T.
Jones, Dr.L.H.P.
Kirk, J.C.
Nonhebel, Dr.G.
Parry, M.
Phillips, S.H.N.
Rasell, G.J.
Scotson, D.A.
Slater, Dr.D.H.
Tagg, J.R.
Verdin, A.

Division 11
SOUTH WEST DIVISION

Chairman: Cllr. C. Hebblethwaite, CBE
Hon. Secretary: H.R. Nowell

The first of two meetings during the year was held at Oldbury on Severn nuclear power station in November 1977 and was attended by 28 members. A presentation and film was followed by a tour of the power station and was concluded by a discussion and question period with the Operational Superintendant and his colleagues.

The May A.G.M. at Exeter consisted of a full business programme and saw the retirement of Mr. D.J. Barnett from the post of Honorary Secretary which he had served with distinction for many years. The afternoon session comprised three papers on items of regional interest, each of which was followed by a discussion period. The first was by Messrs. H. Nowell (Bath City C.) and C. Howell (Stroud D.C.), who gave a resume of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee's report on a Survey of Airborne Metals. This was followed by a slide illustrated talk from Mr. J. Bloomer (Exeter City C.) on an Environmental Impact Survey in Exeter. Finally Dr. J. Bryant (Exeter University) outlined his research work into the field of anaerobic digestion of sewage sludge.

The Divisional Council met before each of the general meetings and effectively dealt with considerable amounts of routine business and made recommendations to the Division.

Membership has remained fairly static during the year, but there is a hope during 1978/79 to recruit some of the County Councils and the more south western District Councils.

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bristol, City of
Central Electricity Generating Board South West Region
National Coal Board
Plymouth, City of
South Western Gas Board

LOCAL AUTHORITY MEMBERS

Bath, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Poole Borough Council
Stroud District Council
Taunton Deane District Council
Teign Bridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.
Electroloid Ltd.
South West Electricity Board
Wilson, J.D. & Partners

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Barnett, D.J.
Capper, A.J.
Coleham, J.E.
Draper, P.
Gallop, J.
Hockin, Dr.L.E.
Lane, Dr.J.J.
Norman, L.
Parker Dr.R.A.
Redston, R.V.
Sparrow, Dr.C.J.
Wallis, Mrs.E.
Watkins, E.R.

Division 12
SOUTH & MID WALES DIVISION

Chairman: Cllr. C.R. Lewis
Hon. Secretary: L. Morgan

The Honorary Secretary has nothing to report.

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation Welsh Division
Cardiff, City of
Mid Glamorgan County Council
National Coal Board
Wales Gas Board
West Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cynon Valley District Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely District Council
Torfaen Borough Council
Vale of Glamorgan Borough Council

CORPORATE MEMBERS

Coal Merchants Federation of Wales (Eastern Area)
South Glamorgan Institute of Higher Education
South Wales Electricity Board
Swansea Port Health Authority

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Daly, R.
Dearden Mr.
Harrop-Griffiths, H.
Heard, M.J.
Perriman, R.J.
Steer, J.
Taylor, B.C.
Thayer, J.M.

1978/79 NSCA MEMBERS' HANDBOOK

SMOKE CONTROL AREAS

Programmes and Progress

The following lists contain the names of the new local authority areas as of April 1st 1974. Due to the local reorganisation in certain parts of the country, and the recent financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1978 and some authorities' figures will have changed since that date. Figures underlined indicate completed programmes. The new British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

Note: susp. = (programme) suspended; n/k = not known

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
		NORTHERN		
Allerdale DC (Cumbria)				
Blyth Valley DC (Northumberland)	1989/90	17,649	2,012	6,366
Carlisle City (Cumbria)	-	-	900	2,525
Castle Morpeth(B)(Northumberland)	1982	2,173	819*	136*
Darlington(B) (Co. Durham)	1983	49,375	3,428	15,883

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Durham City (Co. Durham)	-	44,000	-	-
Easington DC (Co. Durham)	-	2,800	1,866	5,685
Gateshead(MB) (Tyne&Wear)	2000	35,372	10,190	39,025
Hartlepool(B) (Cleveland)	1980	23,300	6,816	26,723
Langbaurgh(B) (Cleveland)	-	-	9,573	24,093
Middlesbrough(B) (Cleveland)	1979	12,226	11,121	50,783
Newcastle upon Tyne(M)(Tyne&Wear)	1978	34,500	15,500	107,250
North Tyneside(MB) (Tyne&Wear)	1982	12,592.5	8,255	41,245
Sedgefield DC (Co. Durham)	1982+	10,000	1,210	5,909
South Tyneside(MB) (Tyne&Wear)	-	16,285	12,035	48,232
Stockton-on-Tees(B) (Cleveland)	-	48,062	9,635	29,767
Sunderland(MB) (Tyne&Wear)	-	34,530	3,821	19,351

NORTH WESTERN

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Blackburn DC (Lancs)	1988	15,000	10,122	33,151
Bolton(MB) (Gtr. Manchester)	1990/91	34,000	15,505	62,323
Burnley(B) (Lancs)	1980	23,000	17,000	35,000
Bury(MB) (Gtr. Manchester)	-	24,506	17,034	49,242
Chorley(B) (Lancs)	-	-	274	1,400
Crewe & Nantwich(B)(Cheshire)	-	-	1,957	8,731
Ellesmere Port&Neston(B)(Cheshire)	-	-	3,662	14,957
Halton BC (Cheshire)	1979	14,500	12,701	37,132
Hyndburn(B) (Lancs)	1980	18,050	11,965	24,832
Knowsley(M) (Merseyside)	susp	-	6,359	51,243
Lancaster City (Lancs)	-	-	4,087	7,926
Liverpool(M) (Merseyside)	1985/90	27,819	19,429	112,126
Macclesfield(B) (Cheshire)	susp	130,690	305	2,653
Manchester City(M)(Gtr.Manchester)	1981	28,720	23,689	143,417
Oldham(M) (Gtr. Manchester)	-	34,871	14,512	70,906
Pendle DC (Lancs)	1981	17,500	7,814	27,039
Preston(B) (Lancs)	-	-	5,993	36,892
Ribble Valley(B) (Lancs)	-	143,119	432	356
Rochdale(M) (Gtr. Manchester)	1981	39,306	18,448	56,777
Rossendale(B) (Lancs)	2000	34,170	6,442	4,779
St. Helens(MB) (Merseyside)	1982	32,201	13,954	51,549
Salford City(M) (Gtr.Manchester)	1977	23,942	23,942	90,279
Sefton(M) (Merseyside)	-	36,388	2,586	13,463
South Ribble(B) (Lancs)	-	27,454	1,269	2,926
Stockport(MB) (Gtr. Manchester)	-	31,147	21,454	90,830
Tameside(MB) (Gtr. Manchester)	1981	25,519	17,789	75,598
Trafford(MB) (Gtr. Manchester)	No figures received from LA			
Vale Royal DC (Cheshire)	No figures received from LA			
Warrington(B) (Cheshire)	1982	35,824	31,834	56,124
West Lancashire DC (Lancs)	No figures received from LA			
Wigan(MB) (Gtr. Manchester)	1984	52,918	15,685	47,029
Wirral(M) (Merseyside)	1987	32,176	15,819	80,005

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
YORKSHIRE & HUMBERSIDE				
Barnsley(MB) (S. Yorks)	1988	81,200	7,996	18,954
Bradford City(M) (W. Yorks)	1981	91,444	50,838	180,106
Calderdale(MB) (W. Yorks)	1980/81	89,390	41,225	74,748
Craven DC (N. Yorks)	-	19,529	5,634	7,531
Derwentside DC (Co. Durham)	-	-	834	3,522
Glanford(B) (Humberside)	-	144,738	15,263	580
Harrogate DC (N. Yorks)	-	-	2,559	9,509
Kingston-upon-Hull City(Hu.side)	-	-	8,516	54,396
Kirklees(MB) (W. Yorks)	-	-	30,830	83,354
Leeds City(M) (W. Yorks)	1982	134,916	71,253	205,230
Rotherham (M) (S. Yorks)	-	69,881	10,366	46,992
Scunthorpe(B) (Humberside)	1980	8,337	4,095	21,617
Sheffield City(M) (S. Yorks)	1981	57,790	51,667	213,716
Wakefield City(M) (W. Yorks)	-	82,330	22,658	48,485
York City (N. Yorks)	1983	6,859	3,052	12,511
WEST MIDLANDS				
Birmingham City (W.Midlands)	1983	65,309	49,187	269,572
Coventry City(M) (W. Midlands)	1987	23,845.38	6,937	29,888
Dudley(MB) (W. Midlands)	1994	24,202	18,207	73,666
East Staffordshire DC (Staffs)	1985/86	4,222	2,325	7,994
Lichfield DC (Staffs)	1982	3,597	1,555	738
Newcastle under Lyme (Staffs)	-	52,159	4,209	15,407
North Shropshire DC (Salop)	-	1,310	512	1,503
North Warwickshire(B) (Warwicks)	1984	14,883	4,060	3,570
Nuneaton(B) (Warwicks)	1982	19,587	7,830	13,960
Rugby(B) (Warwicks)	No figures received from LA			
Sandwell(MB) (W. Midlands)	-	21,150	6,536	34,466
Shrewsbury & Atcham (B) (Salop)	-	148,928	999	3,464
Solihull(MB) (W. Midlands)	-	44,495	6,167	34,856+
Staffordshire Moorlands DC (Staffs)	-	-	2,220	5,370
South Staffordshire DC (Staffs)	1986	10,000	4,186	1,405
Stoke on Trent City (Staffs)	No figures received from LA			
Tamworth(B) (Staffs)	1984	7,892	4,089	4,570
Walsall(MB) (W. Midlands	-	26,266	11,895	45,567
Warwick DC (Warwicks)	1984	3,660	3,137	17,142
Wolverhampton(MB) (W. Midlands)	1986	17,031	8,052	49,099
Wrekin DC (Salop)	1988	72,000	2,791	5,025
EAST MIDLANDS				
Amber Valley DC (Derbys)	1990	19,300	2,689	5,090
Ashfield DC (Notts)	-	27,520	10,140	13,749
Bassetlaw DC (Leics)	1981	15,226	4,727	6,262
Blaby DC (Leics)	1990	20,171	3,937	9,377

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Bolsover DC (Derbys)	1998	39,877	1,070	2,856
Broxtowe DC (Notts)	1985	14,667	7,204	20,107
Chesterfield(B) (Derbys)	1983	16,259	4,198	16,760
Corby DC (N'Hants)	1979	3,659	1,136	9,002
Derby(B) (Derbys)	1985	19,282	13,714	47,856
Erewash(B) (Derbys)	-	26,955	1,968	7,560
Gedling(B) (Notts)	No figures received from LA			
High Peak DC (Derbys)	-	133,629	2,301	9,342
Leicester City (Leics)	1975	18,144	18,144	91,218
Lincoln City (Lincs)	1987	8,828	4,947	11,993
Mansfield DC (Notts)	1995	18,997	7,381	17,499
Northampton(B) (N'Hants)	-	19,928	8,179	17,557
North East Derbyshire (Derbys)	-	68,101	19,200	22,700
Nottingham City (Notts)	1988	18,364	10,321	38,923
Oadby & Wigston(B) (Leics)	susp	2,448	145	903
Rushcliffe(B) (Notts)	1981	3,045	177	4,801
South Derbyshire DC (Derbys)	-	-	1,657	2,999
South Kesteven DC (Lincs)	-	-	2,220	5,370
EAST ANGLIA				
Cambridge City (Cambs)	No figures from LA			
Norwich City (Norfolk)	susp	9,655	1,535	1,376
Peterborough City (Cambs)	-	82,424	4,966	13,581
West Norfolk DC (Norfolk)	-	-	841	4,377
SOUTH WEST				
Bath City (Avon)	1989	7,092	-	-
Bristol City (Avon)	1985	27,073	13,724	57,494
Cheltenham DC (Gloucs)	-	-	896	2,915
Exeter City (Devon)	susp	10,952	7,252	17,744
Gloucester City (Gloucs)	-	8,240	-	-
SOUTH EAST				
Aylesbury Vale DC (Bucks)	1984	3,594	912	5,047
Basildon DC (Essex)	susp	-	4,528	21,682
Bedford DC (Beds)	No figures received from LA			
Bracknell DC (Berks)	1985	8,636	3,286	9,838
Brentwood DC (Essex)	-	-	227	2,856
Brighton(B) (E. Sussex)	1991	14,613	866	7,788
Broxbourne(B) (Herts)	1989	12,903	1,951	8,828
Canterbury City (Kent)	-	77,202	251	1,781
Crawley(B) (W. Sussex)	1985	9,013	5,622	31,496
Dacorum DC (Herts)	-	7,444	3,731	14,649
Dartford DC (Kent)	1981	17,267	8,789	19,445
Epping Forest DC (Essex)	-	85,146	600	2,463

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Gillingham(B) (Kent)	1979	11,000	9,472	30,450
Gravesham(B) (Kent)	1981	4,500	3,014	15,022
Guildford(B) (Surrey)	1985	n/k	1,720	551
Harlow DC (Essex)	1965	5,889	5,889	27,900
Hertsmere DC (Herts)	-	21,031	2,120	7,913
Luton(B) (Beds)	1980	10,695	6,334	36,307
Medway(B) (Kent)	-	-	6,383	19,974
Milton Keynes(B) (Bucks)	-	-	3,776	12,500
North Bedfordshire(B) (Beds)	1988	7,314	2,978	10,592
North Hertfordshire DC (Herts)	-	-	1,350	4,622
Oxford City (Oxfordshire)	1985	8,785	3,390	15,011
Portsmouth City (Hants)	1989	9,249	732	7,159
Reading(B) (Berks)	1980	9,106	5,959	32,650
Sevenoaks DC (Kent)	-	91,586	1,341	3,684
Slough(B) (Berks)	-	6,813	3,966	21,662
Southampton City (Hants)	1985	12,058	3,308	25,433
Spelthorne(B) (Surrey)	No figures received from LA			
Stevenage(B) (Herts)	1961	6,256	3,508	9,696
Thurrock(B) (Essex)	1985	42,000	7,892	19,275
Watford(B) (Herts)	1979	5,275	4,419	23,097
Windsor&MaidenheadRoyal B (Berks)	susp	831	831	2,585
Wokingham DC (Berks)	-	44,232	-	-
Wycombe DC (Berks)	susp	7,091	3,818	16,525

LONDON BOROUGHS

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Corporation of London	1955	678	678	17,147
Barking	No figures received from LA			
Barnet	1981/2	22,123	15,282	107,468
Bexley	1976	15,896	15,896	93,806
Brent	1975	10,934	10,934	95,624
Bromley	1979	28,739.5	26,484	85,522
Camden	1968	5,365	5,365	88,214
Croydon	susp	21,395	13,164	103,614
Ealing	1972	13,711.5	13,711	112,876
Enfield	1978	20,061	20,010	110,000
Greenwich	1972	11,724	11,724	75,673
Hackney	1967	4,814	4,814	90,507
Hammersmith	1967	3,950	3,950	72,559
Haringey	1968	7,490	7,490	94,281
Harrow	1975	12,555	12,555	82,060
Havering	1979/80	29,652	21,942	66,230
Hillingdon	1979	27,258	19,165	80,016
Hounslow	1972	14,469	14,469	73,646
Islington	1969	3,679	3,679	82,000
Kensington&Chelsea (Royal)	1972	2,950	2,950	25,288
Kingston upon Thames (Royal)	1979	9,281	6,371	49,190
Lambeth	No figures received from LA			
Merton	1977	9,381	9,381	69,283

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Newham	1979	8,986	6,023	75,879
Redbridge	1971	13,983	13,983	67,658
Richmond upon Thames	1972	13,873	13,873	75,400
Sutton	1977	10,732	10,732	n/k
Tower Hamlets	1968	4,876	4,876	42,440
Waltham Forest	No figures received from LA			
Wandsworth	No figures received from LA			
Westminster (City)	1970	5,334	5,334	13,021
NORTHERN IRELAND				
Antrim (Co. Antrim)	1976	764	764	6,338
Ards(B) (Co. Down)	-	-	105	823
Armagh DC (Co. Armagh)	-	-	4	96
Ballymena(B) (Co. Antrim)	susp	325	325	890
Belfast City (Co. Antrim &Co. Down)	1969	26,218	3,324	23,103
Castlereagh DC (Co. Down)	1980	5,911	4,807	16,025
Craigavon(B)(Co. Armagh)	No figures received from LA			
Down (Co. Down)(Co. Down)	-	-	482	790
Larne(B) (Co. Antrim)(Co. Antrim)	susp	-	11	290
Londonderry City (Londonderry)	-	-	74	546
Newtownabbey (Co. Antrim)	-	-	1,570	4,933
North Down(B)(Co. Down)	-	-	176	765
Strabane (Co. Tyrone)	1974	54	54	750
SCOTLAND				
Bearsden & Milngavie(Strathclyde)	-	5,000	5,000	13,000
Clackmannan (Central)	-	-	577	3,678
Clydebank (Strathclyde)	1979	9,230.68	4,004	19,470
Dumbarton (Strathclyde)	1985	11,787	3,206	8,723
Dundee City (Tayside)	1981	12,294	10,613	56,715
Dunfermline (Fife)	1990	76,800	930	5,031
East Kilbride (Strathclyde)	-	5,930	5,379	23,920
Edinburgh City (Lothian)	No figures received from LA			
Ettrick & Lauderdale(Galashiels area only)	-	1,766.24	1,766	5,235
Falkirk (Central)	-	-	12,812	32,753
Glasgow City (Strathclyde)	1984	49,375	32,503	235,814
Hamilton (Strathclyde)	-	42,883	2,195	13,515
Inverclyde (Strathclyde)	-	1,461	1,461	7,423
Kilmarnock & Loudoun(Strathclyde)	-	100.9	100	577
Kirkaldy (Fife)	-	-	5,839	7,083
Monklands (Strathclyde)	-	-	5,116	19,858
Motherwell (Strathclyde)	-	-	773	3,364

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Nithsdale (Dumfries & Galloway)	1983	2,342	1,418	2,789
Renfrew (Strathclyde)	1988	–	13,263	55,469
Roxburgh (Borders)	1985	1,240	426	1,900
Stirling (Central)	–	–	378	2,050
Strathkelvin (Strathclyde)	–	40,000	4,014	n/k
West Lothian (Lothian)	–	103,401	6,521	10,330
	WALES			
Alyn & Deeside (W) (Clwyd)	–	–	50	448
Delyn (B) (Clwyd)	–	370	140	n/k
Newport(B) (W) (Gwent)	–	–	67	1,178
Wrexham Maelor(B) (W) (Clwyd)	–	90,571	2,166	10,390

NSCA PUBLICATIONS

Prices quoted are those current at the date of publication, and are subject to variation. Please add 20% of the total cost of publications for postage and packing, with a minimum addition of 20p and a maximum of 75p. These charges do not apply to: orders for the Society's leaflets, bulk orders of any one publication or publications, the NSCA Reference Book.

All orders are sent by second class mail or parcel post in Great Britain; overseas orders are sent by book post. If specifically requested, publications will be sent by first class mail, air mail, registered post etc, but the additional costs incurred will be charged.

Information about older, out-of-print and overseas publications may be obtained from the Society on request. Some are available for purchase whilst many are in the Society's library and can be consulted or borrowed for short periods.

"Clean Air"
The Journal of the Society. It contains articles, photographs, reports, news items, abstracts and other current information appertaining to air pollution and allied matters. Subscription rate for 1978: £3.00 post free and for 1979: £4.00 post free.

"NSCA Reference Book" - First Edition
An excellent source of reference, containing sections on air pollution, water, wastes, current research and a Trade Directory and Buyers Guide, in all 194 pages of valuable information. This new publication is loose leaf bound into a comb binder with attractive card covers. An alternative rexin covered binder with metal rings is available for an extra £2.00.

The Reference Book together with the NSCA Member's Handbook (an annual publication) replaces the former NSCA Year Book, last published in March 1976.

Prices: NSCA Members and their appointed representatives
Reference Book with card cover - £4.50 + 50p postage and packing
Reference Book with rexin binder - £6.50 + 50p postage and packing

Non Members
Reference Book with card cover - £5.80 + 50p postage and packing
Reference Book with rexin binder - £7.80 + 50p postage and packing

"Sulphur Dioxide"
An examination of sulphur dioxide as an air pollutant. 2nd edition - revised and updated.
Price: £1.00

"Fumifugium" or "The Smoake of London Dissipated"
John Evelyn's well-known tract (1661).
Price: 25p

"Towards Cleaner Air"
A very good general introduction to the subject of clean air. Revised and updated.
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"Pollution"
An introduction to the whole subject of pollution for school children and students up to 'O' level standard.
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Conference and Seminar Papers
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Scarborough Conference, October 1972.
Part I:

1. Pollution Control - How far can we go? - Prof. C.J. Stairmand
2. Metals in the Atmosphere - R.A. Fish
3. The Scheduled Processes - F.E. Ireland
4. The Chemical Industry and Air Pollution - F. Whiteley
5. Odour Nuisances in Industry - T.R. Jones
6. Odour Nuisances in Agriculture - Dr. F.H. Peakin
7. Effects of Air Pollution on Plants - Dr. L.H.P. Jones and D.W. Cowling

PartII: Opening Address by Lord Kearton, Presidential Address by Stanley E. Cohen and Reports of Discussions.

Torquay Conference, October 1973.
Part I:

1. Smoke Control - A Stocktaking of the Present Position - Mrs. A. Moss
2. Dartmoor Under Pressure - Lady Sayer
3. The Invasion of the South West's Environment - P. Turnbull
4. Control of Emission for Combustive and Non-Combustive Sources - K. Darby and K.R. Parker
5. Living in Polluted Cities - F.J.C. Amos
6. Pollution and Health - Dr. R. Murray
7. The Effects of Some Air Pollutants on Farm Animals - Dr. L.H.P. Jones and D.W. Cowling
8. The Effect of Pesticides on Life in the Soil - J. Newman
9. Effects of Nitrates on Farm Animals - A.H. Walters

Part II: Opening Address by D. Davies, Presidential Address by H.B. Greenborough, and Reports of Discussions

Cardiff Conference, October 1974
Part I:

1. New Legislation affecting the Environment and its Implications and Effects - W. Bate

2. Environmental Pollution: The Technical Aspects of Co-operation Between Industry and the Local Authority - Dr. R. Jenkins
3. The Propagation and Screening of Traffic Noise - T.W. Happell
4. Preliminary Findings of the Five Towns Survey - Dr. R.G. Derwent and Dr. H.N. Stewart
5. The Prevention of Pollution from the Coal Industry - D.H. Broadbent
6. The Prevention of Pollution from the Steel Industry - Dr. A. O'Connor
7. Wild Life and the Effects of Pollution - Professor K. Mellanby
8. The Measurement of Heavy Metals in the Atmosphere and their Interpretation - N.J. Pattenden
9. The Use of Moss-Bags as Deposition Gauges for Airborne Metals - Professor G.T. Goodman, S. Smith, G.D.R. Parry and M.J. Inskip

Part II: Civic Welcome and Opening Address by The Right Worshipful the Lord Mayor of Cardiff, Presidential Address by H.B. Greenborough and Reports of Discussions

Brighton Conference, October 1975.
International Clean Air and Pollution Control Conference.
Part I:
INTERNATIONAL ATTITUDES TO THE CONTROL OF POLLUTION
1. A Comparison of Approaches - Dr. L.E. Reed and Dr. W.T. Westaway

The United Kingdom Approach and its Application

2. By Central Government - M.F. Tunnicliffe
3. By Local Government - T.H. Iddison

The European Approach and its Application

4. Pollution Control in the European Economic Community - S.P. Johnson (Commission of the European Community)
5. Criteria and Standards for the Protection of Man and his Environment in the Environmental Action Programme of the European Communities - Dr. P. Recht, J. Smeets and W. Hunter (Commission of the European Communities)
6. A New Approach to Standards - Dr. L.A. Clarenburg (Netherlands)

ENERGY FROM THE CONTINENTAL SHELF

7. Exploration - J.M. Bowen
8. Production and Pollution Control - F.G. Larminie
9. North Sea Oil - In Context and Perspective - H.B. Greenborough

TECHNICAL ASPECTS OF THE CONTROL OF INDUSTRIAL POLLUTION

10. The Prevention of Pollution by Gases from Industrial Installations - J.P. Detrie (France)
11. Technical Aspects of the Purification of Industrial Effluents - Dr. F. Malz (W. Germany)
12. Toxic and Other Hazardous Wastes - R.A. Fish

CONSERVATION OF RESOURCES

13. Development and Conservation of Human Resources to Assure Environmental Quality - Professor C.E. Barthel (U.S.A.)
14. Non-renewable Mineral Sources for the Future - Professor F. Roberts

POLLUTION FROM ROAD VEHICLES

15. One Man's Car - Another Man's Poison? - Dr. S. Reed
16. The E.E.C. Philosophy of Control - D. Verdiani (Commission of the European Communities)
17. Control of Pollution and Noise from Automotive Sources - D. Collins

Part II: Opening Address by Professor K. Shiozawa, Presidential Address by Professor P.J. Lawther and Reports of Discussions

Edinburgh Conference, October 1976
Part I:
1. Noise as an Air Pollutant - Dr. A.J. Crosbie
2. The Industrial and Local Authority Approach to Neighbourhood Noise - J.H. Richardson and R.W. Smith
3. Smoke Control - A Review of the Present Position and the Way Ahead - W.J.S. Batho
4. Smoke Control in an Industrial Area: Experience in North East England - L. Mair
5. The Findings and Recommendations of the Royal Commission on Environmental Pollution - Sir Brian Flowers
6. People, Pollution and Retribution - Professor G.M. Howe
7. Rural Pollution - The High Peak, Derbyshire - I. Holmes
8. Energy Sources - What are the Alternatives - Dr. J.C. McVeigh
9. The Scope for Solar Energy in the Energy Pattern of the Future - P. Brunt
10. The Utilisation of Solar Energy - B. McNelis
11. The Disposal of Toxic and Radio-active Wastes - Dr. D.H. Sharp

Part II: Opening Address by The Lord Provost of Edinburgh, Presidential Address by Professor P.J. Lawther and Reports of Discussions.

Harrogate Conference, September 1977.
Part I:
1. Clean Air - Some Random Thoughts on the State of Play – T.H. Iddison
2. The Society and its Future – Rear Admiral P.G. Sharp
3. The Effects of Air Pollution on Health – Professor P.J.Lawther
4. The Effects of Air Pollution on Amenity – Professor K.Mellanby
5. What has been Achieved and What Remains to be Done – In the Domestic Field – E.W.Foskett
6. What has been Achieved and What Remains to be Done – In Industry – C.J.O.Moorhouse
7. The Fifth Report of the Royal Commission on Environmental Pollution – Comments by the CBI – A.I. Biggs
8. The Environmental Programme of the EEC and its possible Effects on Existing Clean Air Legislation – A.J.Fairclough
9. Air Pollution and Plants – Dr. P.J.W.Saunders
10. The Influence of Aerial Pollution on Agricultural Crops – Professor C.P.Whittingham
11. Effects of Atmospheric Pollutants on Forests and Natural Plant Assemblages – Professor F.T.Last
12. Radioactivity and the Nuclear Fuel Cycle – Dr.R.H.Clarke
13. The Control of Airborne Radioactive Emissions from Nuclear Power Stations in the U.K. – J.Beighton
14. Exposure of the Public to Radioactive Discharges from the Nuclear Fuel Cycle – Pamela M.Bryant and Frances E.Taylor

Part II: Reports of Discussions.

Brighton Conference, October 1978.
Part I:
1. The UK Approach to the Control of Air Pollution - A European Appraisal - Dr.E.Weber
2. The European Approach - P.J.Wilde
3. The Task of the Local Authority, Monitoring, Measurement, Collection and Dissemination of Information - L.E.Robson
4. The Role of HM Alkali and Clean Air Inspectorate -S.J.Hart
5. The Tasks of Industry - Monitoring, Measurement,Research - H.I.Fuller
6. The Need for Education - Are we Doing Enough? - D.L.Lewis and Mrs.C.Mares
7. Is Enforcement of Existing Legislation Adsquate? - D.G.T.Williams
8. Low Energy Strategies for the UK - G.Leach
9. Energy Conservation in Industry - Dr.N.J.D.Lucas
10. The Economics of Clean Air - J.Lowe
11. Air Pollution- The Cost of Abatement and Control - A.W.F.Maule

Part II: Reports of Discussions.

Technical Seminar, Manchester, March 1972.
Part I:
1. Industrial Waste - the Problem of Disposal - N. Iliff
2. On site Incineration - K.S. Dunn
3. Centralised Incineration - W.A. Clennel and C.R. Mowle
4. Incineration of Rubber and Plastic Wastes - G. Cheater
5. Incineration of Sewage Sludge - G. Moodie
6. Integrated Environmental Design - H.G. Mitchell
7. The Role of the Heating and Ventilating Engineer in Pollution Control - F.M.H. Taylor
8. Dust Control in Factories - P. Swift
9. Clean Rooms - R.B. Williamson
10. A Practical Approach to the Statutory Control of Emissions - C.R. Cresswell
11. Grit and Dust from Non-Combustive Processes - C.D. Darley
12. High Efficiency Gas Cleaning - K. Darby
13. Some Problems of Dry Processes for Removing SO_2 from Flue Gases - J. Bettelheim and B.H.M. Billinge
14. Electrostatic Precipitators - A.J. Moyes and M. Swift
15. Boiler Furnace Design Considerations for Dual Fuel Firing - H.B. Weston
16. Modern Chimneys - M. Beaumont
17. Progress in Automatic Control - R.P. Braby

Part II: Report of the Discussions

Technical Seminar, Oxford, April 1973.
Part I:
1. Lead in Petrol - is it Necessary? - C.L. Goodacre
2. Acceptable Devices for the Control of Emissions - Expert Panel
3. Why do Diesels Make Smoke - How May it be Abated? - N.M.F. Vulliamy
4. Regulations Regarding Smoke Emission: Are They Adequate? How Can They Be Strengthened? - P. Draper
5. Control of Pollution in Jet Engines - M.R. Williams

6. Gas Turbines for Rail Traction - M.A. Stokes
7. The Future: The Alternative to the Motor Car - or Alternative Fuels - Dr. C.G. Williams

Part II: Report of Discussions

Technical Seminar, Sheffield, March 1974

Part I:

1. A History of the Campaign Against Air Pollution in Sheffield and District - A.F. Maule
2. Atmospheric Pollution Control in the Iron and Steel Industry - J.H. Flux
3. The Development of Fume Cleaning Plant for the Templeborough Electric Melting Shops, B.S.C. - I.C. Cross
4. Environmental Control in the Manufacture of Artificial Graphite - A.N. Howard
5. The Use of Natural Gas in Industry and its Contribution Towards Cleaner Air - Dr. P.B. Simpson
6. Now Solid Fuel Makes a Clean Sweep - J.G.S. Smith
7. The Contribution of the Alkali Act - M.F. Tunnicliffe
8. River Pollution Prevention and its Relationship with Atmospheric Pollution - T.W. Raven
9. Reduction of Combustion Generated Air Pollution - Professor J.M. Beer and Dr. A.B. Hedley

Part II: Report of Discussions

Technical Seminar, Newcastle upon Tyne, March 1975

Part I: The Second Working Party on Grit and Dust

1. General Considerations - Dr. G.G. Thurlow
2. The Work of the Incineration Panel - G. Taylor
3. The Work of the Cold Blast Cupola Panel - P.J. Moseley and F.M. Shaw
4. Dryers and Miscellaneous Furnaces - E.B. Briggs

Monitoring

5. Instrumentation for Particulate Measurement - A. Keating
6. The Need for Monitoring - A. Archer
7. Practical Experience on Measurement of Grit and Dust Emissions - W. Short
8. Measurement and Standards for Pollutant Emissions from Stationary Sources - S.C. Wallin and P. Clayton

Control of Grit, Dust and Fume

9. Specific Problems - Dr. E.T.J. Fuge
10. Grit Arrestors - H. Westwood
11. The Electrostatic Precipitator at High Temperature - K. Darby and K.R. Parker
12. Bag Filters for Dust Arrestment - H.A. Edwards
13. Extraction of Solids from the Flue Gas Stream of Oil Fired Boilers - M. Beaumont
14. Afterburning as a Means of Fume Incineration - J. Thurley

Part II: Reports of Discussions

Technical Seminar, "Odours", Birmingham, March 1976
Part I:

1. The Public Attitude - F.G. Sugden
2. The Legal Position - R.G. Goodbody
3. The Second Report of the Department of the Environment Working Part on the Suppression of Odour from Offensive and Selected Other Trades - Dr. H.N.M. Stewart
4. The Effects of Odours on Health - Dr. C. White
5. Factors in the Answer to Some Problems - Dr. B. Leadbeater
6. Odours from the Food and Fish Processing Industries - D.D. Singer and Mrs. R.O. Hunt
7. Farming - C.T. Riley
8. Animal By-Products - K. Sharples
9. The Incineration of Exhaust Fumes from Solvent Based Paint Stoving Ovens - J.I. Morris
10. Adsorption - Dr. I. Young
11. Catalytic Combustion and the Control of Air Pollution - R.A.Searles
12. Absorption - A.T.Canton
13. Research and Development - A.A.North

Part II: Reports of Discussions

Technical Seminar, "Noise", Manchester, March 1977
Part I:

1. Noise Control - The Present and Future Position - F. Reynolds
2. Industrial Noise: A Case for Legislation - M. Ankers
3. Noise Reduction: Has Education a Role to Play? - A.J. Percival
4. Noise Abatement Zones - C.N. Penn
5. Reduction of Vehicle Noise at Source - J.W. Tyler
6. Aircraft Noise as a form of Pollution - R.J. Hill
7. Noise and the Worker - R. Harrison
8. Noise from Construction Sites - D.L. Barry

Part II: Reports of Discussions

Workshop, Bristol, April 1978.
Part I:

1. The Philosophy of Planning - A. Buchanan
2. The Environmental Aspects of Planning - K.Cox
3. Is Planning Legislation Adequate to Safeguard the Environment - Miss A.Lees and Dr.G.D.Parry.
4. The Problems of the Development of an Urban Industrial Area - Avonmouth - D.J.Barnett.
5. Alternative Inner Areas - J.J.C.Amos
6. The Relocation of a Major Industry in an Urban Setting - J.Quick

Part II: Reports of Discussions.

POSTERS
All double crown - 20" wide x 30" deep

1. Prevent Air Pollution - Britains Biggest Headache
2. Lungs, Plants, Animals, Buildings and Your Pocket are being attacked by Polluted Air
3. Couldn't You Do With Some Clean Air?
4. Road Vehicle Pollution

Price: 15p per poster
£10 per 100 - can be mixed

LEAFLETS
Sample copies sent on request

1. Garden Bonfires
   £2.50 per 1,000, 5,000 or more less 25% discount
2. Prevent Air Pollution
   £5.00 per 1,000, 5,000 or more less 10% discount
3. Clean Air Begins at Home
   £7.00 per 1,000, 5,000 or more less 10% discount

SMOKE CHARTS

Ringlemann Smoke Chart, complete with instructions
Price: 30p each, £2.50 for 10

Powers Microringelmann
Direct facsimile reduction of the Standard Ringelmann Chart
Price: 50p each, £4.50 for 10

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on varied pollution and environmental aspects. Application for the loan of films should be made to the issuing organisation referred to in the lists.

The films are on free loan unless hire charges or purchase price are quoted. Two or three weeks' advanced notice of hire should be given. The running time of films in minutes is included. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Member' Handbook.

ASBESTOS INFORMATION CENTRE

A number of 16 mm colour sound films are available through the Asbestos Information Centre. Because of changing health and safety standards it is recommended that potential borrowers first discuss their requirements and interests with the A.I.C.

MIRACLE FIBRE - KILLER DUST
A pulsed slide-tape presentation (18 mins.) is also available from the A.I.C. This programme looks at the nature and uses of asbestos together with information on health and safety. The programme is usually presented by an approved A.I.C. lecturer.

Available from:
ASBESTOS INFORMATION CENTRE
Sackville House, 40 Piccadilly,
London W1V 9PA
tel: 01-439 9231

BRITISH GAS CORPORATION

THE AIR - MY ENEMY
Examines the problem of air pollution, especially SO2 from fuel combustion.
Colour 25 mins 16mm

BRITAIN'S NATURAL GAS
Has been compiled from several films to give a complete picture of a great modern industry.
Colour 21 mins 16mm

I'M GLAD YOU ASKED THAT QUESTION
In this cartoon, a light-hearted account is given of the way in which natural gas was formed from deeply buried coal measures, how it was discovered and put to use.
Colour 10 mins 16mm

The above films are available on free loan from:
VISCOM FILM LIBRARY
Parkhall Road Trading Estate,
Dulwich, London SE21 86E
tel: 01-670 5786

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY
A review of the causes of 'dirty air' as produced by domestic and industrial smoke, traffic, etc. The effect on the lungs of living in this type of atmosphere is briefly shown and the film is of value to Public Health Workers as a means of ramming home the ill effects of a smoky atmosphere.
Colour 10 mins 16mm £2 + VAT

Available from:
BMA/BLAT FILM LIBRARY
BMA House
Tavistock Square
London SC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

CHIMNEY OSCILLATION

One day in April, 1966, a film record was made of the oscillation of a 130ft. furnace chimney at the Hull factory of BP Chemicals Ltd. Though the wind speed at the time was only 11m.p.h., the movement at the top of the chimney reached 2ft. Oscillation of this type has rarely been filmed outside the laboratory and, as far as is known, never before in Britain. The phenomenon was studied by the Aerodynamics Division of the National Physical Laboratory, Teddington, and High-speed motion picture shots were obtained in a wind tunnel.
B/W 5 mins 16mm

CLEAN BEACHES
Deals with methods and equipment for the control of oil pollution at sea and on shore.
Colour 14 mins 16mm

THE COMBUSTION PROCESS
This is a film for practising engineers and students so that, by greater understanding of the burning of petroleum fuels, more effective and more efficient use can be made of them. It deals with the process from the theoretical and the practical standpoint and illustrates the creation of the right combustion conditions for specific tasks e.g. an open hearth furnace, diesel engines, gas turbines, ets. Uncontrolled combustion is shown producing undesirable effect such as'knocking' in a petrol engine and also these phenomena being controlled by extraneous agents (e.g. fuel additives).
Colour 26 mins 16mm

ENERGY IN PERSPECTIVE
This is a thought-provoking film about energy, the world's most precious commodity. It discusses man's historic use of energy and examines the limits of the world's supply of fossil fuels-coal, oil and natural gas. It considers alternative sources of energy, nuclear, solar, tidal, geothermal, etc., and emphasises the need to turn from the thoughtless over consumption of the past to a more intelligent use of energy in the future.
Colour 21 mins 16mm

THE TIDE OF TRAFFIC
Social and environmental problems brought about by the scale of motor vehicle usage.
Colour 29 mins 16mm

WEB OF LIFE SERIES
Seven films examining the ecological balance of the world's major systems: THE LIVING LAKES; THE LIVING MOUTAINS; THE LIVING RAIN FOREST: THE LIVING RIVER: THE LIVING SAVANNA: THE LIVING TUNDRA: THE LIVING WOODLAND.
Colour 30 mins 16mm

The above films are available on free loan from:
THE BP FILM LIBRARY
15 Beaconsfield Road
London NW10 2LE
tel: 01-451 1129

CEGB FILM LIBRARY

ANYWHERE BUT HERE
Are pylons preferable? Mock-up of a public enquiry into CEGB's proposed routing of high voltage overhead powerlines. 1968.
Colour 34 mins 16/35mm

CHANGE FOR SAFETY
Shows nuclear safety rules being applied in a nuclear power station. Different types of radiation explained in diagrammatic form. 1970.
Colour 24 mins 16/35mm

ELECTRICITY AND THE ENVIRONMENT
Shows CEGB's pollution problems and generally, action taken to combat them. 1971.
Colour 22 mins 16/35mm

NEW LANDS FOR OLD
Shows the use of pf ash for land reclamation.
Colour 10 mins 16/35mm

NUCLEAR GENERATION

Illustrates the effects of nuclear power stations on the day-to-day life of the local community. 1976.
Colour 17 mins 16/35 mm

POWER ON DEMAND

Describes the basic structure of the industry and some of its problems in meeting the demand for electricity. 1975.
Colour 15 mins 16mm

The above films are available on free loan from:
CENTRAL ELECTRICITY GENERATING BOARD
FILM LIBRARY
Sudbury House,
15 Newgate Street, London EC1A 7AU
tel: 01-248 1202

THE CENTRAL FILM LIBRARY

BLACK SPOT TO BEAUTY SPOT

Shows the transformation of derelict land around Stoke-on-Trent, and the purifiction of formerly polluted streams.
Colour 15 mins £5.00

CLEAN AND PLEASANT LAND

Concerns clean up of oil polluted beaches.
Colour 31 mins £6.00

IT'S ALL MAN MADE

DoE film follows course of the river Trent and discusses environmental issues raised.
Colour 14 mins 16/35mm free loan

THE NEW PROSPECTORS

By volume 80 per cent of household waste is potentially reclaimable, and reclamation has proved to be both technically possible and commercially viable. Warren Spring Laboratory has set up a pilot-scale dry processing plant to sort household waste by size and weight prior to reprocessing. Recycling waste is environmentally and economically beneficial and the film illustrates how a variety of valuable raw materials can be recovered. Examples include use of reclaimed glass, detinning metal and recycling paper for pulp and fuel pellets. C.O.I for Department of Industry.
Anvil Film and Recording Group. 197
Colour 18 mins £5.0

REFUSE WITH A FUTURE

The problem of waste disposal grows in magnitude and complexity. Modern technology can re-cycle the cast-offs of modern living to remake the landscape. The film shows how several Scottish local authorities used the Vickers Seerdrum Wet Rotational Pulverising system for land reclamation and infill work, in places of natural beauty or built-up areas. This system is explained in detail, showing the sequence of household refuse disposal, from collection and processing to disposal. Of value to local authorities, management and all interested in this problem. Vickers Film Unit, 1974.
Colour 12 mins Free Loan

Available from:
THE CENTRAL FILM LIBRARY
Government Building,
Bromyard Avenue, Acton,
London, W3 7JB
tel: 01-743 5555

CONCORD FILMS COUNCIL LTD

AND ON THE EIGHTH DAY

Outstanding programme on the pollution of our environment, in four sections: WATER; AIR; EARTH; FIRE. Thames TV 1970.
Colour 60 mins £10.0

A CLEANER, GREENER CITY

In contrast with the chaos of some of man's attempts to conquer nature, great efforts have been made in a German industrial town to keep the air and water clean, to have plenty of trees, lakes and green spaces, and make it a pleasant place to live Ways of smoke control and treating industrial waste are shown. Spon-

sored film with the message that industry brings problems which must be solved, and they can be solved. (There is no mention of finite resources.) Germany. 1975. (English commentary.)
Colour 15 mins £2.00

EH! WHAT?

The problem of noise in industry. There do not seem to be adequate safeguards, and several people who have become deaf through high noise levels at work are interviewed, together with the manager of firms. Among the industries mentioned are aircraft maufacturers, beer bottling factories and lorries and earth moving vehicles, though there are many others. Granada "World in Action" programme, 1973.
Colour 30 mins £6.00

THE ENERGY SERIES:

ENERGY: THE DILEMMA

Colour USA 1974 20 mins £4.20

ENERGY: THE NUCLEAR ALTERNATIVE

Colour USA 1974 20 mins £4.20

ENERGY: NEW SOURCES

Colour 20 mins £4.20

ENERGY: LESS IS MORE

Colour USA 1974 18 mins £4.20

ENVIRONMENT

Can we preserve our environment and still hold on to our technology and life style. USA 1974.
Colour 28 mins £6.60

FIRST MILE UP

Study of air pollution. Canada 1961
B/W 30 mins £4.40

LIVING DANGEROUSLY

A chemical plant in the Italian village of seveso blew up, scattering the neighbourhood with Dioxin. The poisonous dust contaminated a wide area. Even small doses cause genetic changes, mutations to the unborn child and sores; larger doses are lethal. Dioxin is present in the chemical 245T, a permitted ingredient in domestic weedkillers widely available in the U.K. Its record in Vietnam, where it was used as a defoliant, prompted the U.S. to ban its use. A thousand times more toxic than thalidomide, it resulted in an increased incidence of spina bifida and similar abnormalities. We have to weigh up the convenience of the weedkillers against the appalling dangers they and chemical plants like the one at Sevesco hold. Granada "World in Action" programme. 1976.
B/W 30 mins £4.60

NO ACT OF GOD

Hard hitting film about the danger we are letting ourselves in for in opting for nuclear power. Explains in lay terms the problems of storage of waste materials, and the extreme toxicity of radio active substances. Amory Lovins of Friends of the Earth is one of several experts appearing in the film. National Film Board of Canada 1977.
Colour 30 mins £7.60

NUCLEAR WASTE IN THE IRISH SEA

Granada "World in Action" film, 1976.
Colour 30 mins £5.50

POLLUTION SERIES:

THE FIRST POLLUTION

Water quality management and improvement techniques. USA, 1966.
Colour 26 mins £6.00

THE SECOND POLLUTION

Air Pollution. Loss Angeles and Chicago provide illustrations. USA 1966.
Colour 22 mins £6.00

THE THIRD POLLUTION

Solid waste disposal. USA, 1966.
Colour 23 mins £6.60

POPULATION AND POLLUTION

Suitable for older school children upwards. USA, 1970.
Colour 18 mins. £4.00

A STENCH IN THE EAR
A survey of how noise in a typical north country city affects our ears. Industrial and town life environments contribute an every-growing volume of sound which is causing a dramatic increase in deafness. Yorkshire TV 1976.
Colour 30 mins £7.00

WHO STOLE THE QUIET DAY?
Noise - comprehensive film suitable for most age groups. USA, 1973.
Colour 16 mins £3.80

The above films are all 16mm. Prices quoted are for one-day hire charge. Each extra day is charged at one quarter of the figure given.

Available from:
CONCORD FILMS COUNCIL LTD.
Nacton,
Ipswich,
Suffolk IP10 0JZ
tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES - WHAT ARE THE FACTS?
The film is not so much about what electric vehicles do now but about the benefits that would be obtained from their future use.
Colour 20 mins 16/8mm

MAKE ROOM WITH ELECTRICITY
Shows how electric appliances and services simplify home modernisation, make the most of local authority grants and provide amenities that a are second to none in cleanliness and convenience.
Colour 24 mins 16/8mm

The above films are all available on free loan from:
THE ELECTRICITY COUNCIL, FILM LIBRARY
30 Millbank
London SW1P 4RD

Films as indicated are available in 8mm. These can be obtained on free loan direct from:

BARRY WILES FILMS.
Screen House,
135 Borden Lane,
Sittingbourne,
Kent ME10 1BY

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industry in the United Kingdom. Its aim is to improve the knowledge of young people about basic electrical principles and their practical applications and to provide background information on the use of electricity in commerce, agriculture, horticulture, industry and the home.

This catalogue lists 16mm films, 35mm filmstrips, posters, publications, information sheets, wall charts and other educaional material. These are available from the Electricity Council and the Central Electricity Generating Board in England and the Northern Ireland Electricity Service.

Educational material and facilities (including environmental study centres, nature trails and visits to power stations) are also provided by the regional offices of the CEGB. Details from UNDERSTANDING ELECTRICITY , Electricity Council, 30 Millbank, London, SW1P 4RD.

FIELD STUDIES COUNCIL

THE HIDDEN WORLD
Shows work in progress at the nine field centres and emphasises the delicate balance of Nature. Secondary school upwards.
Colour 19½ mins 16mm

Available from The Secretary
FIELD STUDIES COUNCIL
9 Devereaux Court
Strand
London WC2R 3JR
tel: 01-583 7471

GATEWAY EDUCATIONAL MEDIA

BIOLOGICAL EQUILIBRIUM
Whenever man interferes with the long established order of Nature, unintentionally or deliberately, he starts a long chain of changes.
Colour 12 mins 16mm £5.50

OF BROCCOLI AND PELICANS AND CELERY AND SEALS
Pesticides used in agriculture are shown to be carried by the natural land drainage into rivers, and finally to the sea. Contaminated fish are eaten by birds, animals and men. DDT derivatives are toxic, stable for up to 20 years and they accumulate in the fatty tissues of all living things.
Colour 29 mins 16mm £7.10

The above films are available for hire from:
GATEWAY FILM HIRE LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1127

GUILD SOUND & VISION LTD

KEEP IT CLEAN
Although mainly designed for agricultural audiences, this film is of interest to all concerned with diesel engine operation. It tells the story in simple non-technical language of the vital importance of clean fuel and the need for adequate filtration. CAV Ltd.
Colour 16 mins free loan

THE KEY TO DIESEL EFFICIENCY
The efficiency of a modern diesel engine depends to a large extent upon the correct functioning of its fuel injection system and in particular to a small but vital component-the injector nozzle.
In this short but interesting film the function and manufacturing processes of these nozzles are graphically illustrated and explained.
CAV Limited.
Colour 12 mins free loan

A LOAD OF OLD RUBBISH
This film takes a lively look at London's refuse disposal, past and present, and traces the history from the days when rubbish was thrown from the windows ('gardez loo') and describes today's sophisticated methods.
Note: This film is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, The County Hall, London SE1.
Colour 26 mins £4.15 + VAT

SOMETHING CAN BE DONE ABOUT WATER
Shows the use of sedipur for treatment of industrial waste water and municipal sewage.
Colour 26 mins £4.15 + VAT

SOUND SENSE
Noise, both in offices and industry, can be dangerous both physically and mentally and is one of the greatest annoyances of modern life. Firstly we are shown how it affects our daily working life and the scientific measurements used to monitor the levels, both in heavy industry and many other working environments. Secondly, the various methods which are available to limit noise and vibration to acceptable levels, both on the factory floor and in offices and homes.
This film was produced to assist all companies with a noise problem and show the dangers of this ever-increasing hazard to our daily lives.
T.MAT-Engineering Ltd.
Colour 18 mins free loan

TAKEN FOR GRANTED
Shows sewage treatment by the Thames Water Authority.
The film is available on 'free loan' to anyone living in the following counties which are within the Thames Water Region: Kent, Essex, Hertfordshire, Oxfordshire, Gloucestershire, Wiltshire, Berkshire, Hampshire,

Surrey, Sussex, Middlesex.
Thames Water Authority.
Colour 15 mins £3.85 + VAT

The above films are available from:
GUILD SOUND & VISION LTD.
Woodston House,
Oundle Road,
Peterborough PE2 9PZ.
tel: Peterborough (0733) 63122

HODGKINSON BENNIS LTD

THE PROPERTIES OF COAL

Shows how the properties of coal vary according to the areas where it is mined, and how these characteristics affect its behaviour during combustion. The film gives an explanation of swelling number and shows how various types of coal suit different types of stokers.
Colour 20 mins 16mm £3.00

Available from:
HODGKINSON BENNIS LTD.,
Little Hulton,
Worsley,
Manchester M28 6SS
tel: 061-790 4411/9

ICI FILM LIBRARY

THE CHOICE

The film's main themes are earth, air and water. It concentrates on what is being done and what can be done, to preserve the environment. Science and technology have already provided most of the answers. Co-operation between industry and the community has already remonstrated that it can yield worthwhile results. Future success will depend on continuing investment, and, above all, a wider, more vigorous co-operation.
Colour 29 mins 16mm

SOMETHING TO SING ABOUT

The problem of aerial pollution tackled by ICI's Agricultural Division at Billigham on Teeside. The achievement of a 98 per cent reduction of sulphur dioxide, grit and dust.
Colour 12 mins 16mm

The above films are available from:
ICI FILM LIBRARY,
Thames House North,
Millbank,
London SW1P 4QG
tel: 01-834 4444

LOUGHBOROUGH UNIVERSITY OF TECHNOLOG

AIR POLLUTION (series of 3 films)

1. SOURCES AND EFFECTS

Air pollutants are detailed, their effect on people and the environment examined.
Colour 20 mins 16mm

2. THE SCIENCE OF THE SITUATION

Measurements of size, density and shape classify particles and to a large extent their behaviour in air. The film shows how knowledge of the nature and behaviour of the material to be removed is necessary before deciding which type of equipment is most suitable.
Colour 22 mins 16mm

3. METHODS OF CONTROL

Intelligent air pollution legislatio based on scientific understanding balances environmental improvement, with economic realism. The balance is between conservation, pollution and improving standards of living.
Colour 28 mins 16mm
Hire charge per film £16 for two days.
Half price for Further Educational establishments. £2.50 for schools.

NOISE POLLUTION (Series of 3 films)

1. NOISE AND PEOPLE

This film shows the various effects of noise in different situations. Simple and complex sounds are shown on the oscilloscope and spectrum analyser. Loudness, intensity, decibels and the use ofsound level meters are explained.
Colour 28 mins 16mm

2. THE SCIENCE OF SOUND

The physical principles which govern the behaviour of sound are explained. What we hear depends on

what happens to sound as it travels. The effects of distance, atmospheric variations and obstacles are illustrated.
Colour 20 mins 16mm

3. CONTROL OF NOISE
Most noise comes from machines. Much can be done to make our world quieter. The principles and practice of effective noise reduction by distance, barriers, insulation and personal protection are described.
Colour 19 mins. 16 mm
Hire charge per film: two days £16.00, one week £24.00

WATER MANAGEMANT (series of 3 films)
QUALITY AND SUPPLY
To maintain the quality of mains water, collected, treated and distributed by the Water Authorities requires close control of waste water discharges by industry at all stages. Costs of supplying and treating water, sources and effects of river pollution and control by the measurement of biochemical oxygen demand are discussed.
Colour 27 mins 16mm

USE AND TREATMENT

This film shows the basis of charges for waste water from various industries. The treatment of used water both before and after discharge to sewer is discussed and the point made that major cost savings can result by relating quality to use, by conservation, recycling and re-use.
Colour 28 mins 16mm
Hire charge per film £18 for two days.

Available from:
Centre for Extension Studies
LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY
Loughborough,
Leicestershire LE11 3TU
tel: (0509) 63171

MOTHERWELL BRIDGE TACOL LTD

NO TIPPING
Illustrates the "System Dusseldorf" approach to refuse disposal and shows the threat to clean air posed by traditional methods of refuse disposal.
Colour 14 mins 16mm

Available from:
MOTHERWELL BRIDGE TACOL LTD.
Green Dragon House,
64 -70 High Street
Croydon
Surrey CRO 1NA.
tel: 01-686 6917

NATIONAL AUDIO-VISUAL AIDS LIBRARY

The following films are produced by Encyclopaedia Britannica.

CONTROVERSY OVER INDUSTRIAL POLLUTION - A CASE STUDY
1974 Secondary.
Colour 17 mins 16mm

THE EARTH: MAN'S HOME
1970 Infant and Primary.
Colour 10 mins 16mm

ENERGY: A MATTER OF CHOICES
1975. Secondary & Further.
Colour 22 mins 16mm

THE EVERGLADES - CONSERVING A BALANCED COMMUNITY
1968
Colour 11 mins 16mm

THE GARBAGE EXPLOSION
1970
Colour 16 mins 16mm

HOUSE OF MAN - OUR CROWDED ENVIRONMENT
1968
Colour 11 mins 16mm

NOISE - POLLUTING THE ENVIRONMENT
1971
Colour 15 mins 16mm
THE POPULATION PROBLEM
1964
Colour 13 mins 16mm

PROBLEMS OF CONSERVATION - AIR

1968
Colour 15 mins 16mm

PROBLEMS OF CONSERVATION - FOREST AND RANGE

1969
Colour 14 mins 16mm

PROBLEMS OF CONSERVATION - MINERALS

1969
Colour 16 mins 16mm

PROBLEMS OF CONSERVATION - OUR NATURAL RESOURCES

1970
Colour 11 mins 16mm

PROBLEMS OF CONSERVATION - SOIL

1969
Colour 14 mins 16mm

PROBLEMS OF CONSERVATION - WATER

1969
Colour 16 mins 16mm

PROBLEMS OF CONSERVATION - WILDLIFE

1970
Colour 13 mins 16mm

TREES AND THEIR IMPORTANCE

1966 Infant and Primary.
Colour 11 mins 16mm

The above films are available for hire (charges on request) from:

NATIONAL AUDIO-VISUAL AIDS LIBRARY
Paxton Place
Gipsy Road
London SE27
tel: 01-670 4247

N.C.B. FILM LIBRARY

CLEAN AIR AT HANDSWORTH

Describes what happens when a new smoke controlled area is created, and what the householder has to do. It shows three conversions to different types of smokeless solid fuel appliances, quoting the costs, the Local Authority grants, and also, in one case, the National Coal Board's Housewarming Plan. 1967/72.
Colour 8 mins 16mm

CLEAR THE AIR

A new design of sequential charging makes possible the loading of coke ovens with virtually no disturbance to the environment. Working conditions on the ovens are vastly improved. 1976.
Colour 11 mins 16mm

CHIMNEYS

Includes a brief history of chimneys and fireplaces, chimneys being built into new houses, manufacture and installation into existing houses of prefabricated chimneys, laboratory testing and research into design. 1975.
Colour 21 mins 16mm

DISTRICT HEATING

A report on the domestic and international developments in heating buildings from a central boiler house. Contributions in the argument are made by economist E.G. Schumacher, heating engineer Ernest Haseler, and expert on hypothermia, Dr. Groffrey Taylor. 1972.
Colour 24 mins 16mm

GETTING THE BEST OUT OF SUNBRITE

A demonstration showing the correct way to light Sunbrite and to keep it alight in Roomheaters, open fires and boilers. 1977.
Colour 7 mins 16mm

INCINERATE - WITH COAL

Nottingham Corporation incinerate the city's rubbish to fuel the biggest district heating scheme in this country. Coupled with a coal-fired heat station, the scheme heats redevelopments in the city centre, several housing areas and existing buildings. 1973.
Colour 26 mins 16mm

LIVING FIRE

An introduction to the many forms of heating and the great variety of appliances that are possible using solid fuel. 1973.
Colour 5½ mins 16mm

NOT JUST FOR BURNING
RESEARCH INTO COAL AT C.R.E.
Shows research and development carried out at the NCB Coal Research Establishment into cheaper and cleaner ways of burning coal for domestic and industrial use, blending high volatile coals to make coking coals and into future uses of coal. 1971, revised 1974.
Colour 25 mins 16mm

SFAS - SOLID FUEL ADVISORY SERVICE
This film, commentated by Robert Dougall, describes the services provided by the Solid Fuel Advisory Service and the training given to their representatives on all aspects of domestic solid fuel heating. 1975
Colour 16 mins 16mm

TOMORROW'S COAL
Austin Mitchell, television presenter, examines the prospects of the projected Selby coalfield, and explores the attitudes towards it of some of the people of the Plain of York. Expert opinion is enlisted to resolve the problems which lie ahead, and the Chairman of the Board sums up. 1974.
Colour 27 mins. 16mm

WELCOME HOME
Demonstrates the modern equipment available for burning solid smokeless fuels, and the range of these fuels available. Also describes the Clean Air Act, how it works, and how solid fuel meets its requirements. (The Solid Smokeless Fuel Federation publication 'Clean Air is for you' is recommended for distribution to audiences of the film). 1968.
Colour 22 mins 16mm

The above films are available on free loan from:
NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London, SW1X 7AE
tel: 01-235 2020
telex: 882161

NATIONAL SOCIETY FOR CLEAN AIR

HORSEPOWER AND HYDROCARBONS
The California Motor Vehicle Control Board explain the nature and extent of emission problems from the motor car. The alternatives to the petrol driven car are examined, as are methods of reducing levels of emission. The first film to approach all aspects of the problem fully. 1968
Colour 22 mins 16mm free loan

Available from:
NATIONAL SOCIETY FOR CLEAN AIR
136 North Street
Brighton BN1 1RG
Sussex
tel: Brighton (0273) 26313

RANK AUDIO-VISUAL LTD

DETERIORATION OF WATER
Displays various pollutants. 13 +
Colour 19 mins 16mm
Two day hire: £7.95

MAN'S IMPACT ON THE ENVIRONMENT
35 - frame colour filmstrip £3.25 (purchase price).

NOISE POLLUTION
13 +
Colour 18 mins 16mm
Two day hire £7.20

The above films are available from:
RANK AUDIO-VISUAL LTD.
P.O. Box 70
Great West Road
Brentford
Middlesex TW8 9HR
tel: 01-568 9222

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY
A film on Sheffield's victory over smoke.
The 25-minute documentary explains the city's vigorous application of the Clean Air Act, making Sheffield the first major industrial city in Britain to be covered throughout by smoke control regulations.
Colour 25 mins free loan

Available from:
SHEFFIELD PUBLICITY OFFICE
Yorkshire Bank Chambers,
Surrey Street,
Sheffield S1 1LP
tel: (0742) 734068

SHELL FILM LIBRARY

THE ENERGY WE NEED

The film presents the energy resources in economic terms. It is a question of shifting from using capital to income in meeting our energy needs. Sun, winds and waves are all being studied as long-term potential sources. For the present and the immediate future the answer lies with coal, nuclear energy and oil from deep offshore waters. 1976.
Colour 14 mins 16mm

ENVIRONMENT IN THE BALANCE

The film shows how geological, topographical and social developments in Britain have helped to shape our environment and discusses the problems of industrial expansion, population growth and pollution. Given the technological ability to safeguard the future, the issues depend on us all, as individuals. 1970. (currently being updated)
Colour 14 mins 16mm

LOAD ON TOP

Made in association with the British Advisory Committee on Oil Pollution of the Sea, the film describes how tankers using the 'load on top' system can minimise marine pollution. The oil is separated from the water and retained on board in a storage tank while the water is discharged. 1967, re-edited 1976.
Colour 14 mins. 16mm

OIL

How oil was formed; where it lies; the search for it by geologists and geophysicists; the drilling of wells to extract it; its transport and its processing in the refinery into many products. 1971.
Colour 18 mins 16mm

THE RIVER MUST LIVE

River pollution and how it can be overcome by the treatment of urban and industrial wastes. Filmed on the Continent. An unpleasant subject treated sympathetically and practically with splendid photography. 1966, re-edited 1976.
Colour 21 mins 16mm

The abvoe films are available from:
SHELL FILM LIBRARY
25 The Burroughs,
Hendon
London NW4 4AT
tel: 01-202 7803

GENERAL AUDIO-VISUAL TEACHING AIDS (SLIDES, CASSETTES ETC.) ON ENVIRONMENTAL SUBJECTS

Charges quoted are purchase prices.

AEROFILMS LTD

"EXTRACTION, CONSERVATION AND POLLUTION"

Set of 24 aerial photographs taken of different areas in Britain, e.g. air and sea pollution by coastal industrial plant, Workington, Cumberland. Available as 9in x 7in B/W prints, £3.56 set; overhead projector transparencies, £11.34 set; 34mm slides, £3.89 set.

Available from:
AEROFILMS LTD.
Elstree Way,
Boreham Wood,
Hertfordshire
tel: 01-207 0666

CAMERA TALKS LTD.

"CLEAN AIR"

Parts 1 & 2

"ENVIRONMENTAL HELATH OFFICER"

Colour

"NOISE & HEARING"
Parts 1 & 2

"POLLUTION"
Colour

Available as 35mm filmstrips, £4.95 each. Boxed slide sets, £6.95 each. Slide sets in albums £8.95 each. Teaching notes, 50p per set. Cassetted tape commentaries, £3.50 each.

Available from:
CAMERA TALKS LTD.
Audio Visual Aids,
31 North Row
London W1R 2EN
tel: 01-493 2761

EDUCATIONAL PRODUCTIONS LTD

"AIR POLLUTION"
A study folder containing six work cards, six study prints and data sheet. Produced in collaboration with Gas Council. Price 75p

"CARING FOR OUR COUNTRYSIDE"
A series of filmstrips investigating man's impact on the countryside. The series includes:

"HOW NATURAL IS OUR COUNTRYSIDE?"

"MAN'S IMPACT ON THE COUNTRYDIDE ENVIRONMENT"
"MAN AND THE COUNTRYSIDE - CONSERVATION AND RECLAMATION"

Available in single frame £3.90 each; double frame each £3.90 each. The whole series is available as a complete set at £10.50 from:

EDUCATIONAL PRODUCTIONS LTD.
Bradford Road,
East Ardsley,
Wakefield,
Yorkshire
tel: (0924) 823971

GATEWAY EDUCATIONAL MEDIA

"LEARNING ABOUT CONSERVATION"
£66.10

"POLLUTION"
Six single-frame filmstrips and six cassettes. £66.10

Available from:
GATEWAY EDUCATIONAL MEDIA
Waverley Road
Yate
Bristol BS17 5RB
tel: 0454-316774

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"ENERGY"
Photo discussion pack on conventional and alternative energy resources. £1.85 + VAT.

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Photo discussion pack illustrating the impact of the motor car on our environment. £1.85 + VAT

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Photo discussion pack on small scale pollution including smoking and the use of aerosols. £1.85 + VAT

"RESPIRATION"
30 x 40 in chart shows the organs of external and the processes of internal repiration. Pictures make the point of air pollution and refer to lung cancer. With chart notes. £1.85 + VAT.

"TRANSPORT"
Ten large photographs.deal with some of the problems arising from the increasing volume of transport and look at some attempted solutions. £1.85 + VAT.

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THE SLIDE CENTRE

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Urban and county problems discussed, includes noise and pollution gener-

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Slides and notes combine to show the exploitation of the earth by man. First he used up the forests for fuel and as technology increased he turned to coal and oil for energy and the by-products they produce and now faces the prospect of these great resources running out.
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Two folios which underline the speed with which the world's resources of metals and fossil fuels are rapidly diminishing and which look at possible new forms of energy which could replace them.
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£3.50 per folio

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Slide folio of 18 slides £3.50

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"POLLUTION OF THE AIR"

"POLLUTION - US VERSUS THE REST - EXTINCTION"

"POLLUTION OF THE SEA"

"POLLUTION BY WASTE"

Each of the above slide folios contains 12 slides and costs £2.50 per set.

Available from:
THE SLIDE CENTRE
143 Chatham Road
London SW11 6SR
tel: 01-223 3457

DIANA WYLLIE LTD

AIR POLLUTION
Parts 1 & 2 by Prof. R.S. Scorer
Filmstrips & notes: £4.25 each part
Slide sets & notes: £7.25 each part
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Slide set & notes: £7.25
No cassette

ENERGY
Parts 1 & 2 by Rear Admiral P.G. Sharp and Harry Brown
Filmstrips & notes: £4.25 each part
Slide sets & notes: £7.25 each part
30-minute tape cassettes £3 each "

NATURE CONSERVATION IN THE BRITISH ISLES
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Parts 1 & 2 by Nicholas Jones
Filmstrips & notes: £4.25 each
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Filmstrips & notes: £5.00 each part
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1 part only, by Tom Burke
Filmstrip & notes: £4.25 each part
Slide set & notes: £7.25 each part
30-minute tape cassette £3.00

WATER POLLUTION
Parts 1 & 2 by J Ian Waddington
Filmstrips & notes: £4.25 each part
Slide sets & notes: £7.25 each part
No cassettes

Available from:
DIANA WYLLIE LTD.
3 Park Road, Baker Street,
London NW1 6XP
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tel: 01-953 6177
Princes Risborough Laboratory,
Princes Risborough, Aylesbury,
Buckinghamshire
tel: Princes Risborough 3101

Scottish Laboratory, East
Kilbride Glasgow G75 0RX
tel: East Kilbride 33941

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17 Carlton House Terrace, London
SW1Y 5AW
tel: 01-930 0914

HERITAGE EDUCATION GROUP
Civic Trust,
17 Carlton House Terrace, London
SW1 5AW
tel: 01-930 0914

HOUSING CENTRE TRUST
62 Chandos Place, London WC2N
4HG tel: 01-240 3424

INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS
Jubilee House,
Billing Brook Road,
Weston Favell, Northampton
tel: Northampton 404121

INSTITUTION OF CIVIL ENGINEERS
Great George Street, London,
SW1P 3AA
tel: 01-839 3611
tel: 01-222 7722 (from 5 Feb 79)

INSTITUTE OF HOUSING
Victoria House, Southampton Row,
London WC1B 4EB
tel: 01-242 3267/8

INSTITUTION OF MUNICIPAL ENGINEERS
25 Eccleston Square, London
SW1V 1NX
tel: 01-834 5082/3

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01-839 5975

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Street, London E1 6BA
tel: 01-247 5732

ROYAL INSTITUTE OF BRITISH ARCHITECTS
66 Portland Place, London
W1N 4AD
tel: 01-580 5533

ROYAL SOCIETY OF ARTS
6-8 John Adam Street, London
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tel: 01-839 2366

ROYAL TOWN PLANNING INSTITUTE

26 Portland Place, London
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tel: 01-636 9107/8/9

SOCIETY FOR THE PROTECTION OF ANCIENT BUILDINGS
55 Great Ormond Street, London
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tel: 01-405 2646

TOWN AND COUNTRY PLANNING ASSOCIATION
17 Carlton House Terrace, London
SW1Y 5AS
tel: 01-930 8903

CLEAN AIR

HM ALKALI AND CLEAN AIR INSPECTORATE
Chief Inspector, HM Alkali
Clean Air Inspectorate,
Health & Safety Executive,
Becket House,
1 Lambeth Palace Road,
London SE1 7ER
tel: 01-928 7855 Ext 228

Chief Inspector for Northern
Ireland, Mr. D. Hinchliff,
Department of the Environment
for Northern Ireland Alkali
& Radiochemical Inspectorate,
Stormont, Belfast BT4 3SS
tel: 0232 63210
Chief Inspector Mr W McCamley
HM Industrial Pollution Inspectorate for Scotland, Pentland
House, Robb's Loan, Edinburgh
tel: 031-443 8681

CLEAN AIR COUNCIL
Department of the Environment,
Becket House,
1 Lambeth Palace Road,
London SE1 7ER
tel: 01-928 7855

CLEAN AIR COUNCIL FOR SCOTLAND
Scottish Development Department,
Room 424, Pentland House, 47
Robb's Loan, Edinburgh EH14 1TY
tel: 031-443 8681 Ext 424

DERBYSHIRE ADVISORY COUNCIL FOR CLEAN AIR AND NOISE CONTROL
Town Clerk's Office, Town Hall,
Chesterfield S40 1LP
tel: 0246 77232

INSTITUTION OF CHEMICAL ENGINEERS
165-171 Railway Terrace,
Rugby CV21 3HQ
tel: 0788 78214

INSTITUTE OF PETROLEUM
Atmospheric Conservation
Committee Secretary P.Jones,
61 New Cavendish Street, London
W1M 8AR
tel: 01-636 1004

THE MANCHESTER AREA COUNCIL FOR CLEAN AIR AND NOISE CONTROL
Hon. Sec. E.W. Foskett
Environmental Health Department,
Town Hall, Manchester M60 2JB
tel: 061-236 3377 Ext 2577

THE MIDLANDS JOINT ADVISORY COUNCIL FOR CLEAN AIR AND NOISE CONTROL
Enviromental Health Department,
Malinslee House, Telford, Salop

NATIONAL SOCIETY FOR CLEAN AIR
Central Offices: 136 North Street
Brighton, BN1 1RG
tel: 0273 26313
Scottish Division: F.J. Feeley,
Department of Administration &
Legal Services, City Chambers,
Glasgow G2 1DU
tel: 041-221 9600 Ext 2521
Northern Ireland Division:
JR Lamont, 20 Kensington Gardens,
Belfast, BT5 6NP
tel: Castlereagh 461
Northern Division: C.R. Cresswell
Department of Enviromental Health
Civic Centre, Barras Bridge,
Newcastle upon Tyne NE1 8PB
tel: 0632 28520
North West Division: W.E. Pollitt

Environmental Helath Department,
Crompton House, 100 Chorley Road,
Swinton, Manchester M27
tel: 061-794 3256 Ext 293
Yorkshire Division: W.B. Twyford,
Municipal Buildings, Pontefract,
Yorkshire
tel: 0977 72383
West Midlands Division:
C.C. Brookfield, Department of
Environmental Health, Flash Road
Oldbury, Warley, West Midland
B69 4AF
tel: 021-552 3871
East Midlands Division: E.F Raven
Environmental Health Department,
Castlefields House, Main Centre,
Derby DE1 2FL
tel: 0332 31111 Ext. 623
London and South East Division:
and Central Southern Division:
A Rees, Environmental Health
Department, Stone Hall,
High Street, Wallingford, OX10 ODF
tel: 0491 36969
South West Division: H.R.Nowell,
Environmental Health Department,
Bluecoat House, Sawclose, Bath
BA1 1EX
tel: Bath 28411
South and Mid Wales: L. Morgan, 9
Lodge Drive, Baglan, Port Talbot,
West Glamorgan
tel: Port Talbot 5231

ROYAL INSTITUTE OF CHEMISTRY
30 Russell Square, London WC1B
5DT
tel: 01-580 3482

THAMESIDE JOINT COMMITTEE FOR
THE ABATEMENT OF ATMOSPHERIC
POLLUTION
Hon Sec G.H.Ramage, Civic Centre
Gravesend, Kent DA12 1AU
tel: Gravesend 64422

WARWICKSHIRE ENVIRONMENTAL
PROTECTION COUNCIL
C/O Rugby BC Env. Health Dept.
The Lawn, Newbold Road,
Rugby CV21 2LL
tel: 0768 77177

YORKSHIRE AND HUMBERSIDE
POLLUTION ADVISORY CONCIL
Hon. Sec. J.A. Hinchliffe,
Environmental Health Department,
Municipal Offices, Pontefract,
West Yorkshire WF8 1BE
tel: Pontefract 72383

FUEL & ENERGY

BP OIL LIMITED
BP House, Victoria Street,
London SW1E 5NJ
tel: 01-821 2000 Ext. 2785

BRITISH CARBONIZATION RESEARCH
ASSOCIATION
Chesterfield, Derbyshire,
S42 6JS
tel: Chesterfield 76821

BRITISH GAS CORPORATION
59 Bryanston Street, Marble Arch,
London W1A 2AZ
tel: 01-723 7030
telex : 261710

BRITISH NUCLEAR ENERGY SOCIETY
1-7 Great George Street, London
SW1P 3AA
tel: 01-839 3611 Ext 223/4

BUILDING SERVICES RESEARCH AND
INFORMATION ASSOCIATION
Old Bracknell Lane, Bracknell,
Berkshire RG12 4AH
tel: 0344 25071

CENTRAL ELECTRICITY GENERATING
BOARD
Sudbury House, 15 Newgate Street,
London EC1A 7AU
tel: 01-248 1202

CHARTERED INSTITUTION OF BUILDING
SERVICES
49 Cadogan Square, London
SW1X 0JB
tel: 01-235 7671

COLLEGE OF FUEL TECHNOLOGY
90 Talbot Road, Highgate, London

N6 4RB
tel: 01-340 6972

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At'n. Humberto Bravo A., Ph.D.

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Central Organization V (TNO), Juliana van Stolberglaan 148, The Hague

Central Service for Environmental Control, Rijnmond, Stationsplein 2, Schiedam

Council for Air Pollution, Ministry of Health and Environment, Doktor Reyarsstraat 10, Leidschendam

Division for Air Pollution, Gemeentelijk Bouw- en Woningtoezicht, Mauritskade 9-11, The Hague

Environmental Health Division, Municipal Health Service, Baan 170 Rotterdam

Laboratory for Water, Soil and Air Pollution, Municipal Health Service, Nieuwe Achtergracht 100, Amsterdam

National Institute of Public Health, P.O. 6.1, Bolthoven

Netherlands Association Against Water, Soil and Air Pollution, Schaep en Burgh, Noordereinde 60, 's-Graveland

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Stichting Concawe (International Study Group for Conservation of Clean Air and Water in Western Europe), van Hogenhoucklaan 10, The Hague

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New Zealand

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The State Pollution Control Authority, Oslo Dep., Oslo 1

Norwegian Institute for Air Research, P.O. Box 130-2001 Lillestrom

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Eidgenossische Kommission fur
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umweltschutz, Schwarztorstrasse
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Contaminacion del Aires, Calle
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DIVISION OF ENVIRONMENTAL HEALTH
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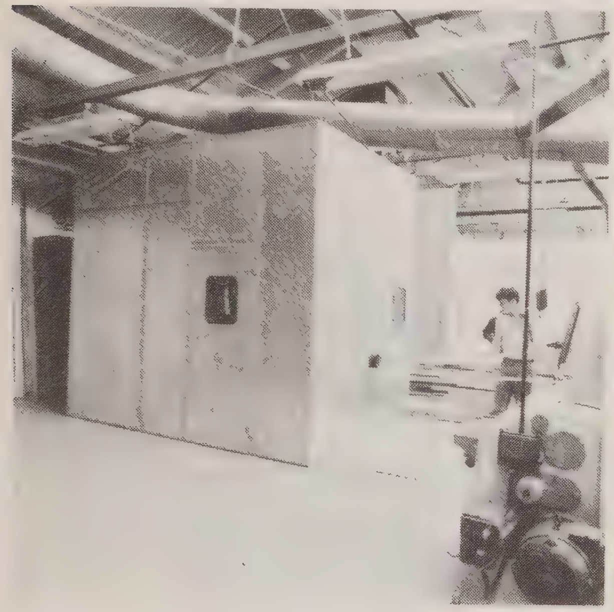

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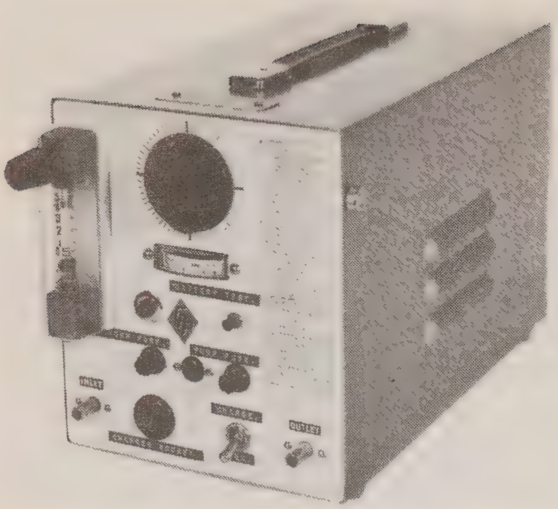

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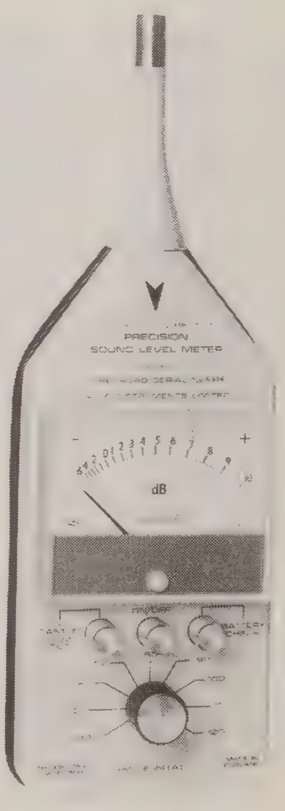

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DUST CONTROL EQUIPMENT LTD.
Thurmaston, Leicester LE4 8HP
tel: (0533) 696161
telex: 34500 DUST G
Telegrams: Dust Leicester Telex

DCE

Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, tubular filters, self-induced spray wet dedusters, dust control units, automatic filtration systems and custom-built installations.

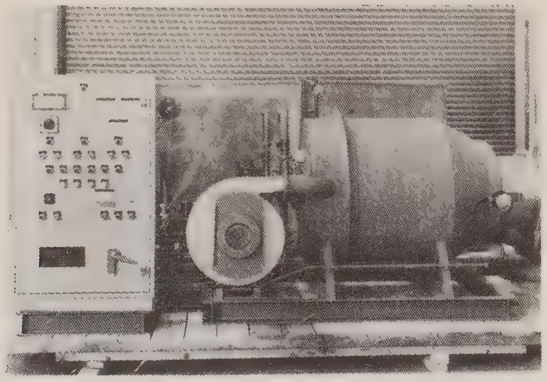
DUST SUPPRESSION INTERNATIONAL LTD.,
Bourne End Mills,
Hemel Hempstead,
Herts. HP1 2RW
tel: Berkhamsted (044-27) 5522

chem-jet

Manufacturers and Consultants in Air Pollution Control. The range of equipment includes Chem-Jet wet suppression, Sky Kleen bag filters with top access, high and low energy wet scrubbers, wet collectors and electrostatic air cleaners. All of this equipment meets the requirements of the Health and Safety At Work etc. Act 1974.

ENGELHARD INDUSTRIES LTD.
Engineering Division, Valley Road,
Cinderford, Glos.
tel: (0594) 22181
telex: 43272

Engelhard offer 'PTX' Vehicle Exhaust Gas Purifiers, 'Deodo' (as shown in the photograph above). Catalytic Air Pollution Control Systems, Chloropac electrochlorinator for control of organic growths in cooling water systems and 'Odoxo' air pollution control systems which utilise sodium hypochlorite solution generated by our chloropac unit.



ENVIRONCO
Pollution Control Devices & Services Ltd.,
Rampart House, Victoria Street,
Windsor, SL4 1EH, Berks.
tel: Windsor 67024
telex: 848314 Chamcom Slough

Acoustic Contractors, Activated Carbon Equipment, Air Conditioners (Domestic), Air Conditioning Equipment, Air Disinfecting Products, Air Pollution Control, Catalytic Air Pollution Control Units, Ducting, Dust Collection Equipment, Dust Collection Equipment & Plant, Dust Collectors, Dust Collector Filter Media, Dust Sampling Equipment, Dust Suppression Equipment, Electrostatic Precipitators, Electrostatic Unit Air Cleaners, Exhaust Purification, Fabric Filters, Filters, Filters: Dust, Filters: Electrostatic Oil Mist, Flue Dust Extraction Plant, Fume Removal Equipment, Grilles, Louvres, etc., Odour Absorption, Odour Control, Pollution Control Advisory Services, Scrubbers, Unit Dust Collectors.

ENVIRONMENTAL CONSULTANCY SERVICE
c/o BNF Metals Technology Centre,
Grove Laboratories, Denchworth Rd.
Wantage, Oxfordshire OX12 9BJ

tel: 023 57 2992
telex: 837166

The Service studies the air pollution problems in the non-ferrous metals industries and provides to both members and non-members consultancy services and fume monitoring facilities in connection with all aspects of melting and processing.

EPEMA
Environmental Protection Equipment Manufacturers Association,
136 North Street, Brighton BN1 1RG
tel: 0273 26313

EPEMA

EPEMA was inaugurated in September 1972 under the auspices of the NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

EPEMA

There are currently twenty members and these are listed below:

Airflow Developments Ltd.; Airwick (UK) Ltd.; F.E. Beaumont Ltd.; Cassella London Ltd.; Concept Cleaning Equipment (International) Ltd.; Dust Suppression Ltd.; Electroloid Ltd.; Engelhard Industries Ltd.; Esmil-Envirotech Ltd.; Incinerator Company Ltd. - The; Johnson Matthey Chemicals Ltd.; Mass Transfer Ltd.; Mikropul Ducon Ltd.; Nailsea Engineering Co. Ltd.; The National Federation of Master Steeplejacks and Lightning Conducto Engineers; N-CON Systems Co. Inc.; E.P. Plastics Ltd.; Provenair Ltd.; J. Smith (Southern) Ltd.; Sutcliffe Speakman & Co. Ltd.

FLEMING INSTRUMENTS LTD.,
Caxton Way, Stevenage, Herts
SG1 2DE.
(0438-3101)
telex: 82385

Air Sampling Equipment.
Particle Size Analysis Equipment (1µ-500µ).
Ultra Violet Measuring System (315nm, 350nm, 400nm).
H_2S Gas Monitor (10p.p.m. alarm level).

GEC-ELLIOTT PROCESS AUTOMATION LTD.
New Parks, Leicester LE3 1UF
tel: (0533) 871331
telex: 34551

Specialises in automation and control systems including process controls (computer and non-computer based), remote control and measuring systems (telemetry) and electronic controllers for dust control equipment.

HUMIDIFIER MANUFACTURING CO. LTD.
21 Napier Road, Bromley BR2 9JA
tel: 01-464 6515 (10 lines)
telex: 896501

Humidifiers and Systems,
-Electrostatic Air Purifiers
-industrial, office, domestic.
Manufacture, supply, installation, free survey and consultancy service.

THE INCINERATOR COMPANY LTD.
Howard Road, Eaton Socon,
Huntingdon, Cambs. PE19 3ER
tel: Huntingdon (0480) 213171
telex: 32337

INCINCO

Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

INTERNATIONAL ENVIRONMENTAL BUREAU FOR NON-FERROUS METALS INDUSTRY
See under Environmental Consultancy Service.

INTERNATIONAL CONSULTING AND LABORATORY SERVICES
288 Windsor Street
Birmingham B7 4DW
tel: 021-359-5951
telex: 3337273

188 Brent Crescent
London NW10
tel: 01-965-1157
telex: 923822

21 Inner Park Road
London SW19 6ED
tel: 01-789-0841
telex: 929501

I.C.L.S. offers a service of monitoring air cleanliness inside industrial buildings, food and pharmaceutical preparation areas and factory sites.

A similar service is also available for water and effluent problems, and the Company can offer a comprehensive service to conduct surveys, recommendation and design of treatment plant and commissioning facilities.

Pollutants such as asbestos, organic solvents, welding fumes and toxic metal dusts, as well as bacteria and dust are all monitored and controlled. A supervisory service is also offered to check that the desired standards continue to be met.

JOHNSON MATTHEY CHEMICALS LTD.
Orchard Road, Royston, Herts.
SG8 5HE
tel: (0763) 44161
telex: 817351

JMC

Catalytic incineration of the organic content of process off-gases for odour abatement and energy recovery by means of Honeycat^R Air Pollution Control Systems. Catalytic reduction of nitrogen oxides from nitric acid plant tail gases. Catalytic exhaust purifiers for diesel engines and for cars to meet U.S. and Japanese emission standards.

LODGE-COTTRELL LTD.
George Street Parade, Birmingham
B3 1QQ
tel; 021-236 3388

Lodge-Cottrell DRESSER

Lodge-Cottrell Ltd. provide complete Gas Cleaning Plants for the removal of dust and fumes from gases resulting from industrial processes and in particular those emanating from cement manufacture, iron and steel production, power generation from solid fossil fuel boilers and municipal incineration.

LYON & PYE LTD.
543 Prescot Road, St. Helens,
Merseyside WA10 3BZ
tel: 627985
sales contact: Mr. A. Thompson

Manufacturers of Industrial Incineratiors for the disposal of Solid and Liquid Waste. Capable of destroying 100% Plastics and Rubbers. No fuel required for continuous combustion with many waste products. Generates hot water, reducing energy costs. Refractories used only on Primary Chamber Floor and Doors.

Other products include Ducting, Tanks, Cyclones, Flue Dust Extraction Plant, Fume Removal Equipment.

MODERN AIR SYSTEMS (LEICESTER) LTD.
Barkby Road, Leicester, LE4 7LG
tel: Leicester 766316/7/8

Manufacturers of skimmers, cyclones, multi-cyclones, unit dust collectors, bag filters, self-induced spray collectors,

MAS Modern Air Systems
(LEICESTER LIMITED)

Venturi scrubbers, together with complete fabrication service for fans, ducting, hoppers, stacks and structures to form complete plants. Design, manufacture, installation and after sales service available. Many years experience in quarry, foundry and other industries.

NAILSEA ENGINEERING CO. LTD.
Mintsfeet Road South, Kendal,
Cumbria.
tel: 0539 24911

NAILSEA Dust Control Equipment

Manufacturers of equipment for the control of environmental pollution with particular emphasis on atmospheric dust control. The Nailsea range includes "Pnu-Jet" reverse pulse bag filters; variable throat Venturi scrubbers; and "Rainmaster" wet suppression equipment. Applications throughout industry, (quarries, chemical, process, iron, steel etc.) All Nailsea installations carry the guarantee that they will cope with the requirements of the Alkali Act.

NALFLOC LTD.
P.O. Box No. 11, Northwich,
Cheshire CW8 4DX
tel: (0606) 74488
telex: 66-8663
Local offices at: Belfast, Bournemouth, Glasgow, Keighley, Leamington Spa, London, Manchester, Stockton-on-Teas, Swansea, Sheffield.

Nalfloc Limited was founded by the association of the former "Alfloc"

Water Treatment Service of ICI Ltd and the Nalco Chemical Company.

NALFLOC

Nalfloc provides a wide range of services, equipment and specialty chemicals for water and effluent treatment, for paper making, for the metal industry, for the marine world, and for general process uses throughout industry.

NEWELL DUNFORD ENGINEERING LTD.
Newell Dunford House, Portsmouth
Road, Surbiton, Surrey KT6 5QF
tel: 01-398 4262
telex: 929574

ND

Newell Dunford Engineering's Thermix line is well known in heavy industry. Shrewd engineers who have to cope with really difficult air pollution problems appreciate the full complement of equipment available which includes: unitary and multitubular centrifugal collectors. Various wet collectors including high energy venturi scrubbers, reverse jet filters, cloth filter dust arrestors, high temperature filters, dust valves, exhaust fans and pnuematic conveying equipment.

C.A. NORGREN LTD.

NORGREN

Campden Road, Shipston-on-Stour,
Warwickshire CV36 4PX
tel: (0608) 61676
telex: 83208

477 Barlow Moor Road, Chorlton-cum-Hardy, Manchester M21 2AS
tel: 061-881 2358
telex: 668712

C.A. Norgren Limited. World leading manufacturer of compressed air processing equipment including the new DESIGN CENTRE 'AWARD WINNING' Olympian Plug-in System.
Filters, Pressure Regulators, Air Line Lubricators and associated equipment.
Vacuum Filters, Water Filters, Liquid Regulators, CO_2 Regulators.
Fluidic Devices and Systems.
Odour Control Equipment.

PEABODY HOLMES LTD.
Turnbridge, Huddersfield ND1 6RB
tel: (0484) 22222
telex: 51306
London: 17/27 Garratt Lane, London
SW18 4BY
tel: 01-874 6491
telex: 928632

Peabody Holmes

Peabody Holmes provide total capability in industrial atmospheric pollution control. This means design, manufacture, erection and commissioning of a comprehensive range of plant including electrostatic precipitators, high energy and impingement plate scrubbers, fabric filters and multi-cell cyclones. Other equipment includes incinerators for the destruction of poisonous or objectionable liquids of gases from industrial processes. Acoustic enclosures and an industrial noise consultancy service are also available.

PLASTIC CONSTRUCTIONS LTD.

Pacemakers in Plastics, Seeleys
Road, Greet, Birmingham B11 2LP
tel: 021-773 1331 (10 lines)
telex: 338752

Plastic
CONSTRUCTIONS
GROUP

The Plastic Constructions Group design, manufacture and install in acid-proof corrosion-resistant plastics fume ducting, fume-cabinets, PLACON fans and roof ventilators, pumps, valves, scrubbing towers, tanks, tank linings, pipes and pipelines.

POLKINGHORNE INDUSTRIES LTD.

Lillyhall Industrial Estate,
Workington, Cumbria CA14 4JL
tel: Workington 3521/2/3/4
telex: 64157

POLKINGHORNE

"Manufacturer of electronic measurement, alarm, recording and control equipment for various physical variables including temperature, motor speed, moisture, level, pressure and filter efficiency. Also design and manufacture of customised special electronic controls for office machines, automatic washing machines, automobiles, printing machines etc."

ROLFITE U.K. LTD.

Debaff House, 56-58 Maypole Road,
Ashurst Wood, East Grinstead,
Sussex RH19 3QY
tel: Forest Row 3777/8

rolfite

Rolfite products are based on a patented oil-soluable nitrogenous manganese complex, including solutions and dispersions. They are designed to condition oil for more uniform atomisation, improve combustion, reduce corrosion and air pollution by combustion catalyst. Application is simple and operating economies exceed the cost of fuel treatment for any furnace.

SERCK VISCO

Stafford Road, Croydon CR9 4DT
tel: 01-686 3861/9
telex: 946085

Serck Visco are environmental control engineers specialising in the design, manufacture and erection of dust collecting, air filtration and evaporative water cooling equipment. The equipment is designed to individual specification using standard modular construction units which enables special equipment to be produced from the most economical production methods possible.

SOUND RESEARCH LABORATORIES LTD

Holbrook Hall
Little Waldingfield
Sudbury
Suffolk CO10 0TH
tel: Lavenham (0787 24) 595

Consultants in Environmental Acoustics.

SRL

SRL's team of acoustic consultants is grouped into five principle divisions: Building Services and Architectural Acoustics, Industrial, Laboratory, Vehicle Noise Control and Training & Information Services, providing acoustic consultancy world-wide.

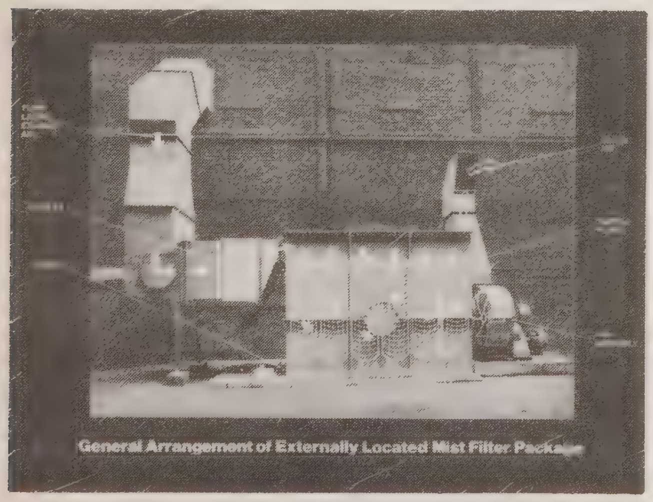
SPENCER & HALSTEAD LTD
Ossett, West Yorkshire WF5 9AW
tel: 0924 275121
telex: 55201
Registered in England No. 120427

SPENSTEAD

Spenstead, as part of the Carborundum group of companies, design and manufacture packaged units and engineered systems for Environmental Control purposes.

The separate divisions of the company deal with Air Pollution, Effluent Treatment, Noise Control and Filtration Equipment for filtering air, gases and liquids.

SPOONER EDMESTON ENGINEERING LTD.
Moorland Engineering Works,
Ilkley, West Yorkshire.
LS29 8JB
tel: Ilkley (0943) 609505
telex: 51273 (Sped G)



General Arrangement of Externally Located Mist Filter Package

The Company is one of Europe's major manufacturers of individually designed ovens, drying and coating plant.

The product range now includes electrostatic precipitators and candle filter equipment suitable for removing aerosol mist/fume from the exhaust on P.V.C. curing ovens, textile setting stenters etc.

STERLING INDUSTRIAL
Chapeltown, Sheffield S30 4YP
tel: (07415) 3171
telex: 547096

Sterling Industrial
Cleanliness at work

A range of odour control products and equipment are offered under the brand name AIR-OD-EX. Products include spray liquids for environmental use out of doors at industrial premises, sewage works, crematoria etc.

For indoor situations including toilets, washrooms, hospital wards, reception areas and the like, there are a number of dispensing units and a selection of odour counteractant gels and liquids which effectively neutralise malodours, leaving either an air-freshened effect or a residual perfume according to choice.

T.E.M. SALES LTD.
Gatwick Road,
Crawley, West Sussex RH10 2RG
tel: Crawley 31244

TEM

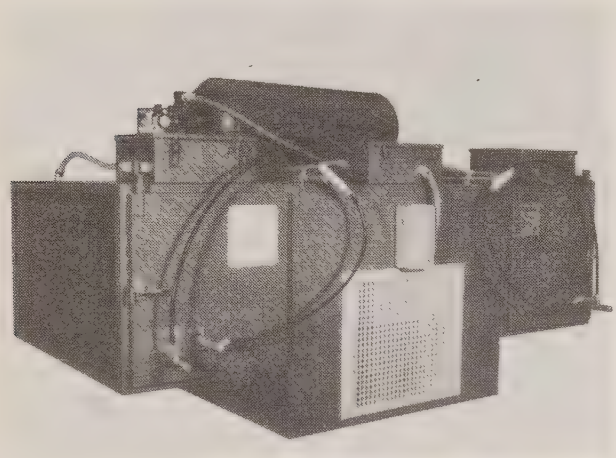
T.E.M. SALES LIMITED
Suppliers of a range of instruments for monitoring and analysing gases and liquids in the whole field of air and water pollution. T.E.M. also supply suitable equipment for continuously recording the level of such pollutants.

TECHMATION LIMITED
58 Edgware Way, Edgeware,
Middlesex HA8 8JP
tel: 01-958 3111
telex: 262245

THRESH BEALE AND SUCKLING

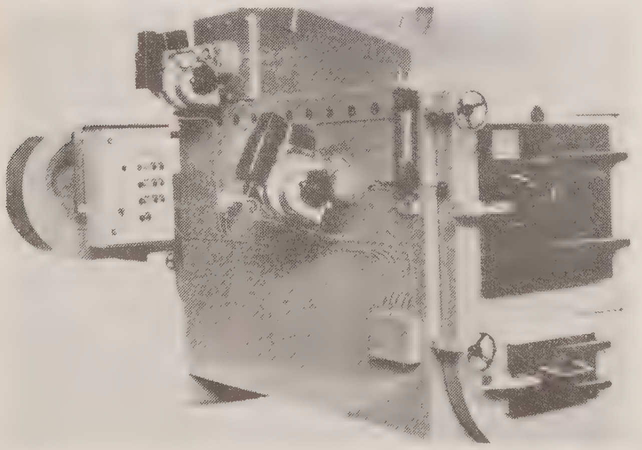
see under International Consulting and Laboratory Services.

UNITED AIR SPECIALISTS (U.K.) Ltd.
15 Waterloo Place, Leamington Spa,
CV32 5LA
tel: (0926) 311621
telex: 311665 UASUK G



Subsidiary of United Air Specialists, Inc; manufacturers of the SMOG-HOG industrial electrostatic air filter and air pollution control systems. Self-contained, self-cleaning and modular precipitators from 1000 c.f.m. - 28,000 c.f.m.

UNIVERSAL MACHINERY & SERVICES LTD.
Millshaw, Leeds LS11 8EQ
tel: (0532) 711888
telex: 557885 (UNIMAC)



Manufacturers of industrial, hospital and marine incinerators. The industrial range includes solid, liquid and sludge as well as material reclamation incinerators. All are designed for low running and maintainance costs and fully comply with the Clean Air Act as well as recent Government recommendations. Heat recovery equipment is also available.

VAN TONGEREN U.K. LTD.
Van Tongeren House, High Street,
Godalming, Surrey.
tel: (04868) 28082
telex: 859487

vt

Van Tongeren U.K. Ltd. are worldwide specialists in the design, supply and operation of high efficiency cyclones for all gas/solids separation applications. In addition they have a range of air classifiers for separation of powders, venturi/impingement wet collectors, rotary and double flap valves.

Van Tongeren have recently introduced a special design of high efficiency cyclones for use with energy recovery systems ahead of expander gas turbines.

VOKES AIR FILTERS LTD.
Stephen House, Burnley, Lancs.
BB11 1PD
tel: (0282) 38921
telex: 63267 Vokair G

VOKES

Manufacturers of a comprehensive range of air filters.

WEBRON PRODUCTS LTD.
Bacup Road, Rawtenstall, Rossendale, Lancs. BB4 7JL
tel: (070 62) 4001
telex: 635077 Webron G.

Webron Products Ltd. manufacture a range of filter materials by meedlefelt processes from Polyester, Polypropylene and high temperature Polyamide fibres.

WEBRON and ZEPHRON materials find their way into every type of industrial manufacturing plant where dust suppression units are in use, e.g. on milling conveying, grinding, sandblasting and smelting plants.

HYDRON Liquid filter materials are a relatively new range of products for use on filter presses, rotary filters, leaf and candle filters. These filters are widely used on sewage works, coal washeries, chemical and foodstuff processing plants. These materials possess the advantage of high filtration rates combined with excellent clarification.

WIMPEY LABORATORIES LTD.
Beaconsfield Road, Hayes,
Middlesex UB4 OLS
tel: 01-573 7744
telex: 935797
telegrams and cables: Wimpeylab
Hayes.

Wimpey Laboratories offer a noise and vibration measuring and advisory service which is operated by engineers and physicists whose experience in this field has been gained by dealing with quality control and design problems in Wimpey and other contracts.

Surveys dealing with air and other environmental pollution are also undertaken.

DIANA WYLLIE LTD.
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London NW1 6XP

Filmstrips/Tape Slide Sets:

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Harry Brown

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Professor R.S. Scorer

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"Waste and Re-Cycling" by
Tom Burke

"Population and Resources" by
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"Nature Conservation in the
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Nicholas Jones

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All with full lecture notes; some with cassette commentaries.

Write for details.

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Allaway Acoustics Ltd.
Peabody Holmes Ltd

AERATORS
William Boulton Ltd.

AGITATORS
William Boulton Ltd.

AIR CONDITIONING EQUIPMENT
Actair International Ltd.
John Bass Ltd.

AIR DISINFECTING PRODUCTS
Bacterol Ltd.

AIR FRESHENER SPRAY FLUIDS
Bacterol Ltd.

AIR MOVERS
William Boulton Ltd.

AIR POLLUTION CONTROL
Ambuco Division of Esmil-Envirotech Ltd.
William Boulton Ltd.
Dust Supression International Ltd.
Engelhard Industries Ltd.
International Consulting and Laboratory Services
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Serck Visco
Spooner Edmeston Engineering Ltd.
United Air Specialists (U.K.) Ltd.
Van Tongeren U.K. Ltd.
Wimpey Laboratories Ltd.

AIR POLLUTION MEASUREMENT
Analysis Automation Ltd.
Charles Austen Pumps Ltd.
Dust Supression International Ltd.
Environmental Consultancy Service
Fleming Instruments Ltd.
International Consulting and Laboratory Services
Nailsea Engineering Co. Ltd.
Polkinghorne Industries Ltd.
Techmation Ltd.
Wimpey Laboratories Ltd.

ANALYSIS APPARATUS: GASES
Analysis Automation Ltd.
Environmental Consultancy Service
T.E.M. Sales Ltd.

ANALYSIS APPARATUS: NOISE/VIBRATION
Environmental Consultancy Service

ANALYSIS APPARATUS: PARTICLES/POWDERS
Environmental Consultancy Service

ANALYSIS APPARATUS: WATER
Environmental Consultancy Service
Techmation Ltd.
T.E.M. Sales Ltd.

ANTI-SOOT AND CORROSION TREATMENT
Nalfloc Ltd.
Rolfite U.K. Ltd.

AUTOMATIC CONTROL EQUIPMENT
G.E.C. Elliot Process Automation Ltd.

BIFURCATED FANS (PVC AND POLYPROPYLENE)
Plastic Constructions Ltd.

BLOWERS
William Boulton Ltd.
Peabody Holmes Ltd.

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International Consulting and Laboratory Service
Nalfloc Ltd.

BURNERS: CATALYTIC
Engelhard Industries Ltd.

BURNERS: GAS
Peabody Holmes Ltd.

BURNERS: OIL
Peabody Holmes Ltd.

BURNERS: SOLID FUEL
Peabody Holmes Ltd.

CATALYSTS
Engelhard Industries Ltd.

CATALYTIC AIR POLLUTION CONTROL UNITS
Engelhard Industries Ltd.
Johnson Matthey Chemicals Ltd.

CENTRIFUGAL FANS (PVC AND POLYPROPYLENE)
Plastic Constructions Ltd.

CHEMICAL HANDLING PLANT
Plastic Constructions Ltd.

CHIMNEYS
F.E. Beaumont Ltd.

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F.E. Beaumont Ltd.

CHIMNEYS: INSULATED
F.E. Beaumont Ltd.

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John Bass Ltd.

COMBUSTION CATALYSTS
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Nalfloc Ltd.
Rolfite U.K. Ltd.

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CONTROLLERS: GAS PRESSURE
Techmation Ltd.

CONTROLLERS: TEMPERATURE
Polkinghorne Industries Ltd.

COOLING TOWERS
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COOLERS
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CYCLONES
Ambuco Division of Esmil-Envirotech Ltd.
Lyon and Pye Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
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Peabody Holmes Ltd.
Serck Visco
Van Tongeren U.K. Ltd.

DEODORANT PREPARATION AND DISPENSERS
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DETECTORS: DUST
Analysis Automation Ltd.

DETECTORS: EXPLOSIVE GASES
AI Industrial
Analysis Automation Ltd.

DETECTORS: MERCURY VAPOUR
Environmental Consultancy Services

DETECTORS: SO_2
Analysis Automation Ltd.
Techmation Ltd.

DETECTORS: TOXIC GASES
AI Industrial
Analysis Automation Ltd.
Fleming Instruments Ltd.
Techmation Ltd.

DUCTING
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Modern Air Systems (Leicester) Ltd.
Plastic Constructions Ltd.

DUST CLASSIFICATION PLANT
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Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Serck Visco
Van Tongeren U.K. Ltd.

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Ambuco Division of Esmil-Envirotech Ltd.
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Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Serck Visco
Spencer and Halstead Ltd.
Van Tongeren U.K. Ltd.

DUST COLLECTORS
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Serck Visco

DUST COLLECTOR FILTER MEDIA
Serck Visco

Spencer and Halstead Ltd.
Webron Products Ltd.

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Airflow Developments Ltd.
Environmental Consultancy Service
Fleming Instruments Ltd.
T.E.M. Sales Ltd.

DUST SUPPRESSION EQUIPMENT
John Bass Ltd.
Dust Suppression International Ltd.
Environmental Consultancy Service
Nailsea Engineering Co. Ltd.
Serck Visco

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Webron Products Ltd.

EFFLUENT TREATMENT: PLANT SYSTEMS
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Concept Cleaning Equipment (International) Ltd.
Engelhard Industries Ltd.
International Consultancy and Laboratory Services
Spencer and Halstead Ltd.

ELECTROSTATIC PRECIPITATORS
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Lodge-Cottrell Ltd.
Peabody Holmes Ltd.
Spooner Edmeston Engineering Ltd.

ELECTROSTATIC UNIT AIR CLEANERS
Actair International Ltd.
Humidifier Manufacturing Co. Ltd.

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Engelhard Industries Ltd.
Johnson Matthey Chemicals Ltd.

FABRIC FILTERS
Dust Control Equipment Ltd.
Modern Air Systems (Leicester) Ltd.
Peabody Holmes Ltd.
Spencer and Halstead Ltd.
Webron Products Ltd.

FANS AND BLOWERS
Airflow Developments Ltd.
Modern Air Systems (Leicester) Ltd.
Plastic Constructions Ltd.

FILTERS
John Bass Ltd.
Spencer and Halstead Ltd.
Vokes Air Filters Ltd.

FILTERS: AIR
Serck Visco

FILTERS: AIR (COMPRESSED)
Nailsea Engineering Co. Ltd.
Vokes Air Filters Ltd.

FILTERS: DUST
Actair International Ltd.
John Bass Ltd.
Dust Control Equipment Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Serck Visco

FILTERS: ELECTROSTATIC OIL MIST
Actair International Ltd.
Spooner Edmeston Engineering Ltd.

FLUE DUST EXTRACTION PLANT
Ambuco Division of Esmil-Envirotech Ltd.
Dust Suppression International Ltd.
Lyon and Pye Ltd.
Peabody Holmes Ltd.
Van Tongeren U.K. Ltd.

FLUE GAS DUST MONITORING DEVICE
Analysis Automation Ltd.

FLUE GAS DUST MONITORING DEVICE (CEGB TYPE)
Airflow Developments Ltd.

FLUE GAS DUST SAMPLING EQUIPMENT
Analysis Automation Ltd.

FLUE GAS DUST SAMPLING EQUIPMENT (BCURA TYPE)
Airflow Developments Ltd.

FLUE GAS TREATMENT
Peabody Holmes Ltd.

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Nafloc Ltd.
Rolfite U.K. Ltd.

FUEL EFFICIENCY ADVISORY SERVICE
Environmental Consultancy Service

FUEL OIL COMBUSTION IMPROVER
Rolfite U.K. Ltd.

FUEL OIL CONDITIONER
Rolfite U.K. Ltd.

FUELS: SOLID SMOKELESS
Coalite and Chemical Products Ltd.

FUME REMOVAL EQUIPMENT
Engelhard Industries Ltd.
Lyon and Pye Ltd.
Modern Air Systems (Leicester) Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.
Spooner Edmeston Engineering Ltd.

FURNACES, OVENS, KILNS ETC.
R.M. Catterson Smith Ltd.
Spooner Edmeston Engineering Ltd.

GAS CLEANING PLANT
Actair International Ltd.
William Boulton Ltd.
Engelhard Industries Ltd.
Lodge-Cottrell Ltd.
Nailsea Engineering Co. Ltd.
Peabody Holmes Ltd.
Van Tongeren U.K. Ltd.

GAS SCRUBBERS AND WASHERS
William Boulton Ltd.
Dust Suppression International Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.
Van Tongeren U.K. Ltd.

GRIT ARRESTORS
Ambuco Division of Esmil-Envirotech Ltd.
F.E. Beaumont Ltd.
Van Tongeren U.K. Ltd.

HEAT EXCHANGERS
William Boulton Ltd.

HEATING EQUIPMENT: INDUSTRIAL (PROCESS/SPACE)
GEC-Elliott Process Automation Ltd.

HUMIDIFIERS
Humidifier Manufacturing Co. Ltd.

INCINERATORS
The Incinerator Co. Ltd.
Johnson Matthey Chemicals Ltd.
Lyon and Pye Ltd.
Peabody Holmes Ltd.
Universal Machinery & Services Ltd.

INDICATORS: FLOW
William Boulton Ltd.

INDICATORS: SMOKE DENSITY
Airflow Developments Ltd.

INDICATORS: SO
Analysis Automation Ltd.

INSTRUMENTS, GUAGES, METERS, ETC.
William Boulton Ltd.

INSULATION ACOUSTICS
Allaway Acoustics Ltd.
Bestobell Acoustics

ION EXCHANGE
Nalfloc Ltd.

LECTURES, FILMSTRIPS, TAPE/SLIDES AND NOTES
Diana Wyllie

MASKING AGENTS
Bacterol Ltd.

METEOROLOGICAL INSTRUMENTS
Airflow Developments Ltd.

METERS
William Boulton Ltd.

METERS: SOUND LEVEL
Dawe Instruments Ltd.

MONITORING EQUIPMENT
Airflow Developments Ltd.
Fleming Instruments Ltd.
GEC-Elliott Process Automation Ltd.

NOISE CONTROL MATERIALS
Bestobell Acoustics

NOISE SUPPRESSION
Allaway Acoustics Ltd.
Environmental Consulting Service
Serck Visco
Wimpey Laboratories Ltd.

NOISE/VIBRATION ATENUATION
Allaway Acoustics Ltd.
Bestobell Acoustics
Spencer and Halstead Ltd.
Wimpey Laboratories Ltd.

NOISE/VIBRATION: CONTROL ENGINEERS
Allaway Acoustics Ltd.
Environmental Consultancy Service
Peabody Holmes Ltd.
Sound Research Laboratories Ltd.

Spencer and Halstead Ltd.
Wimpey Laboratories Ltd.

NOISE/VIBRATION: CONTROL SYSTEMS
Allaway Acoustics Ltd.

NOISE/VIBRATION: MEASURING EQUIPMENT
Dawe Instruments Ltd.

NOISE/VIBRATION: PROTECTIVE DEVICES
Allaway Acoustics Ltd.

ODOUR ABSORPTION
William Boulton Ltd.
Engelhard Industries Ltd.

ODOUR CONTROL
Bacterol Ltd.
William Boulton Ltd.
Engelhard Industries Ltd.
International Consulting and Laboratory Services
Plastic Constructions Ltd.
Sterling Industrial

OIL DISPERSANTS
Nalfloc Ltd.

PIPELINE EQUIPMENT AND SERVICES
Plastic Constructions Ltd.

POLLUTION CONTROL ADVISORY SERVICES
Bacterol Ltd.
Dust Suppression International Ltd.
Environmental Consultancy Service
International Consultancy and Laboratory Services
Nailsea Engineering Co. Ltd.
Van Tongeren U.K. Ltd.

PROCESS INSTRUMENTATION
Analysis Automation Ltd.
GEC-Elliott Process Automation Ltd.

PUMPS
Charles Austen Pumps Ltd.
Plastic Constructions Ltd.

RECORDERS
Polkinghorne Industries Ltd.

RE-ODORANT SPRAY FLUIDS
Bacterol Ltd.

RESEARCH AND DEVELOPMENT FACILITIES
Environmental Consultancy Service
International Consultancy and Laboratory Services

ROOF VENTILATORS (PVC)
Plastic Constructions Ltd.

SCRUBBERS
Actair International Ltd.
Ambuco Division of Esmil-Envirotech Ltd.
William Boulton Ltd.
Dust Suppression International Ltd.
Lodge-Cottrell Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Plastic Constructions Ltd.
Spencer and Halstead Ltd.
Van Tongeren U.K. Ltd.

SLEEVES AND TUBES (FOR FABRIC FILTERS)
Webron Products Ltd.

SMOKE DENSITY GUAGES AND METERS
Airflow Developments Ltd.

SMUT INHIBITORS
Rolfite U.K. Ltd.

SPRAYING APPARATUS FOR DEODORANTS ETC.
Bacterol Ltd.

TANKS AND TANK LININGS
Lyon and Pye Ltd.
Plastic Constructions Ltd.

TEMPERATURE RECORDERS
Polkinghorne Industries Ltd.

THERMOMETERS, INDICATORS, ETC.
Polkinghorne Industries Ltd.

THERMOSTATS
Polkinghorne Industries Ltd.

TOWERS
William Boulton Ltd.

UNIT DUST COLLECTORS
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Modern Air Systems (Leicester) Ltd.
Serck Visco
Spencer and Halstead Ltd.

VENTILATORS
Plastic Constructions Ltd.

VENTURI SCRUBBERS
Modern Air Systems (Leicester) Ltd.

WASTE MATERIAL DISPOSAL FURNACES
The Incinerator Company Ltd.

WET ARRESTORS
Actair International Ltd.
Dust Control Equipment Ltd.
Dust Suppression International Ltd.
Modern Air Systems (Leicester) Ltd.
Nailsea Engineering Co. Ltd.
Newell Dunford Engineering Ltd.
Peabody Holmes Ltd.
Van Tongeren U.K. Ltd.

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1979·80 NSCA MEMBERS' HANDBOOK

Front cover shows UK Smoke Control Areas 1977 under the Clean Air Acts 1956, 1964 and 1968.

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NATIONAL SOCIETY FOR CLEAN AIR

The parents of the Society were the Coal Smoke Abatement Society, established in London in 1899. In 1929, the CSAS combined with the Smoke Abatement League of Great Britain, a group of provincial associations, and became the National Smoke Abatement Society. The NSAS widened its horizon to cover all forms of air pollution and in 1958 the name was changed to the present one. The Society's membership includes private individuals, local authorities, corporate bodies representing the learned societies and institutions, the fuel industries, and industries concerned with the production of appliances and equipment for the control of air pollution. The Council of the Society, with a number of reporting committees, governs the organisation and policies of the NSCA, and an administrative staff is employed at the Brighton Headquarters.

The Society's object is to promote public education in all matters relating to the value and importance of clean air, and to initiate, promote and encourage investigation and research into all forms of pollution in order to achieve its reduction or prevention. To this end, the Society has recently extended its interest to include surveys of noise, water pollution and wastes disposal. The NSCA is a founder member of an international group, the International Union or Air Pollution Prevention Associations, the function of which is to promote international collaboration and exchange of information, and to organise congresses.

The Society publishes the proceedings of its annual conferences, workshops and seminars. Other regular publications are the journal 'Clean Air' and the Reference Book. Pamphlets, booklets and technical reports on particular subjects are also published from time to time.

The Society's main activities are the holding of conferences, seminars, meetings and exhibitions. The information service provides educational and publicity material, collecting and disseminating books, periodicals photographs and slides on the causes, effects and prevention of atmospheric and other forms of pollution. Special pamphlets are published for schools, school children and students.

The Society's Library is available for consultation or for loan purposes. The Library possesses an extensive collection of British and foreign books, reports, papers and current journals. There is a classified collection of photographs (mainly black and white) depicting domestic and industrial smoke; air pollution damage to buildings, metals and plants; air pollution control equipment and installations. A collection of colour slides and filmstrips is also available on loan. Students and research workers are welcomed at the Society's offices to use the Library resources.

MEMORANDUM & ARTICLES OF ASSOCIATION & BYE- LAWS

THE COMPANIES ACTS, 1948 TO 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".

2. The registered office of the Society will be situate in England.

3.(1) The object for which the Society is established is to promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control.

(2) In furtherance of the foregoing object but not further or otherwise the Society shall have the following powers:

(A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.

(B) To promote by meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means the collection and dissemination of knowledge about pollution, its causes and effects, and the means to prevent it.

(C) To encourage the adoption of methods to reduce and prevent pollution.

(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.

(E) To initiate, support and co-operate with others in proposals and activities calculated to assit the promotion of the Society's objects.

(F) To establish, and support or aid in the establishment and support of any charitable associations or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.

(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.

(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.

(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.
(M) To take all such other steps as will further the attainment of the above objects or any of them.
PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.
PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.
PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commissioners for England and Wales or the Secretary or State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

THE COMPANIES ACTS 1948 to 1967
COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:-

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a

Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.

Words importing the masculine gender only shall include the feminine gender and vice viersa and

Words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Soeity for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership

INDIVIDUAL MEMBERS

(c)(i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

LOCAL AUTHORITY MEMBERS

(d)(i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than four Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation "Local Authority" shall be deemed to include "Health Authorities" and "Water Authorities" or such other like authorities as the Council shall from time to time admit for membership.

CORPORATE MEMBERS

(e)(i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but it if desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

SUSTAINING MEMBERS

(f) Any member who subscribes not less than the sum as prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a Sustaining Member.

HONORARY MEMBERS

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

STUDENT MEMBERS

(h) Any bona fide non-graduate student pursuing a course of study at

school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

APPLICATION FOR MEMBERSHIP

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

RESIGNATION OF MEMBERS

(j)(i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

(a) whose annual subscription has remained unpaid for two successive years, or

(b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

ANNUAL SUBSCRIPTIONS

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETINGS

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary General Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given

in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings othern than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental ommissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:-

(a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

(b) Appointing Auditors and fixing their remuneration.

(c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman

or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The Officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be appointed by the Society as a Vice-President, provided that he or she is:

- (i) A person distinguished by his or her work in relation to pollution control, or
- (ii) A person deserving of honour for services rendered to the Society or whose association with the Society is for other reasons desirable.

(b) Vice-Presidents shall not exceed six in number.

(c) The term of office of a Vice-President shall not exceed three years at the end of which term he may, if he so agrees, be re-elected to the office.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they

shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term "National or similar organisation" shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:-

(a) If he ceased to be a member or a Representative of a member of the Society;
(b) If by notice in writing to the Society he resigns his office;
(c) If a receiving order is made against him or he make any arrangement or composition with his creditors;
(d) If he becomes of unsound mind;
(e) If he ceases to hold office by reason of any order made under

Section 188 of the Act of 1948;

(f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

(a) As to entrance fees (if any) payable in respect of membership of the Society.

(b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.

(c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.

(d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.

(e) As to the manner in which the Elections of Officers and Council members shall be conducted.

(f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the

Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37. (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In case of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provision of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

(a) all sums of money received and expanded by the Society and the matters in respect of which such receipts and expenditure take place;
(b) all sales and purchases of goods by the Society; and
(c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such

members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Special Resolution dated the 29th March 1974 and as amended on 13th October 1976, 6th July 1977 and 20th July 1978.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

The annual subscription payable by an Individual Member shall be not less than Five Pounds. On attainment of the age of 65 on payment of a sum of Ten Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.

(b) Student Members

The annual subscription payable by non-graduate students pursuing their studies at school, college or university shall be One Pound.

(c) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For Local Authorities with a population of:

Less than 100,000	£ 72.00
100,001 to 250,000	£ 90.00
250,001 to 500,000	£110.00
500,001 to 1,000,000	£145.00

For each additional 500,000 or part thereof £15.00

(d) Corporate Members and Unincorporated Bodies appointed in accordance with Article 4(e)(ii)

The annual subscription payable by Corporate Members and Unincorporated Bodies shall be not less than as follows:

(i) Small local civic societies, colleges, schools and similar organisations £7.50.

(ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms £50.00.

(iii) Industrial organisations £72.00.

(e) Sustaining Members

The annual subscription for Sustaining Members shall be not less than £100.00.

(f) Membership - Special Cases

The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3.(a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than four Representatives.

(b) Corporate Members

- (i) Corporate Members paying a subscription of £7.50 per annum shall each be entitled to appoint one Representative.
- (ii) Corporate Members paying a subscription of £50.00 per annum shall each be entitled to appoint two Representatives.
- (iii) Corporate Members paying a subscription of £72.00 or more per annum shall each be entitled to appoint four Representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Student Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members, Student Members and Representatives as officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members' Handbook of the Society.
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5.(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. Scotland
2. Northern Ireland
3. Northern:
   Cleveland, Cumbria, Durham, Northumberland, Tyne and Wear.
4. North West:
   Cheshire, Clwyd, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. Yorkshire and Humberside:
   Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands:
   Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. East Midlands:
   Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.
8. Eastern:
   Essex, Norfolk, Suffolk.
9. London and South East:
   East Sussex, Greater London, Hertfordshire, Kenty, Surrey, West Sussex.

10. Central Southern:
    Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
11. South West:
    Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
12. South and Mid Wales:
    Wales except for Clwyd and Gwynedd.

or such additions or alterations to areas as the Society may determine.

(b) All Members shall be considered as belonging to the Division in which their address, as entered upon the Society's records is situated.

(c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.

(d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

6.(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.

(b) Vice Presidents shall be elected every three years on the recommendation of the Council by the Society at its Annual General Meeting.

(c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

7.(a) The business of the Council shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.

(b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen, and the following Committees:

(i) Conference and Publicity
(ii) General Purposes and Finance
(iii) Parliamentary and Local Government
(iv) Technical
(v) Any other Committee considered by the Council to be necessary.

(c) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.

(d) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8.(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the offices of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President: Sir Derek Ezra, MBE
Immediate Past President: Lord Flowers, MA, DSc, FRS
Vice Presidents: Stanley E. Cohen, CBE
L. Eastwood
Prof. P.J. Lawther, CBE, MB, BS, DSc, FRCP
Dr. A. Parker, CBE
T. Henry Turner
Hon. Treasurer: R.A.W. Hollingdale
Chairman of Council: H.I. Fuller, MA, F.Inst.Pet.
Deputy Chairmen: A.J. Clarke
H. Giblin
Immediate Past Chairman: Prof. R.S. Scorer, MA, PhD, FRSH, FIMA, FRAeS

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Mr. S.E. Cohen, CBE; Sir John Greenborough, KBE; Professor P.J. Lawther, CBE; Lord Flowers, FRS.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland – E. Gibson, I. MacPherson, P.J. McPartlin
Northern Ireland – J.R. Lamont
Northern – C.R. Cresswell, Cllr. L. Poole, Cllr. T.W. Yellowley
North West – I. Liversidge, J.B. Marsh, W.E. Pollitt, W. Shires, W.F. Snow, A.T. Traynor
Yorkshire & Humberside – I.W. Barker, L. Hay, W.B. Twyford
West Midlands – Cllr. G.T. Randall, Rev. B.N. Shackleton, T. Townsend
East Midlands – Cllr. R.S. Chamberlain, K.R. Enderby, D.F. Haynes, Mrs. E.J. Inglefield
London & South East – M. Beaumont, E. Briggs, J. Clancey, Mrs. D. Hickman, Mrs. G.E. Naylor, A.G. O'Gilvie, Professor R.S. Scorer, G.C. Stubbs, Cllr. F.E. Walsh.
Central Southern – K.B. Dorman, A.J. Rees, R.F. Shapter
South West – K. Aston, L.E. Robson
South & Mid Wales – Cllr. D.V. Bevan, T. Jones, Cllr. C. Lewis

Appointed Representatives of National Bodies:

Asbestos Information Centre: J.L. Kay Green
British Gas Corporation: E.A.K. Patrick
British Steel Corporation: J. Campbell
Central Electricity Generating Board: A.J. Clarke
Electrical Association for Women: Miss M. George
Electricity Council: D.N. Clouting
Environmental Health Officers Association: T.H. Iddison
E.P.E.M.A.: K.S. Dunn
Industrial Gas Cleaning Association: K.H. Pearson
Institute of Gas Engineers: Dr. F.A. Burden
Institute of Petroleum: H.I. Fuller
Low Temperature Coal Distillers' Association: R. Pane
National Coal Board: R.W.C. Wheatley
Royal Society of Health: J. Clancey
Solid Smokeless Fuels Federation: H. Giblin
Women's Gas Federation & Young Homemakers: Mrs. R. McLusky
Women's Solid Fuel Council: Mrs. J. Saunders

Secretary General: Rear Admiral P.G. Sharp, CB, DSC
as from 1st January 1980: Air Vice Marshal K. Kingshott, CBE, DFC

Auditors: Messrs. Geo. Little, Sebire & Co.

WHO'S WHO

SIR DEREK EZRA, MBE, President of the Society. Sir Derek (created a Knight Bachelor in the Birthday Honours, June, 1974) was born on 23rd February, 1919, and educated at Monmouth School and Magdalene College, Cambridge. He joined the Army as a gunner in 1939. He was awarded the MBE in 1945 for wartime services, and after demobilisation in 1947, with the rank of Lt. Colonel, joined the Marketing Department of the National Coal Board. Sir Derek was appointed a Member of the National Coal Board in July, 1965 (with special responsibility for marketing) and Deputy Chairman in May, 1967, and he became Chairman - in succession to Lord Robens - on 3rd July, 1971. Sir Derek is a member of the Government's Advisory Council for Energy Conservation; President of the Consultative Committee of the European Coal and Steel Community in Luxembourg; Chairman of the Confederation of British Industry's Europe Committee, and a member of the CBI Council; a member of the British Overseas Trade Board and Chairman of the BOTB European Trade Committee; a Governor of the London Business School; a member of the Court of Governors of the Administrative Staff College, Henley; a member of the Court of the Cranfield Institute of Technology; and a Governor of Imperial College.

LORD FLOWERS, FRS, Immediate Past President of the Society (1977/79), was educated at Swansea, Gonville and Caius College, Cambridge and at the University of Birmingham. He was appointed Head of the Theoretical Physics Division at Harwell in 1952 and Chief Research Scientist in 1958. In the same year he became Professor of Theoretical Physics at Manchester University and from 1961-72 was Langworthy Professor. From 1966 to 1970 he was Chairman of the Computer Board for Universities and Research Councils. In 1967 he was appointed Chairman of the Science Research Council. He was President of the Institute of Physics, 1972-74. He became Rector of Imperial College of Science and Technology in 1973, and was Chairman of the Royal Commission on Environmental Pollution 1974-76. In 1974, he was elected President of the European Science Foundation and in 1976 was re-elected for a further two years. In 1978, he was appointed Chairman of the Standing Commission on Energy and the Environment.

STANLEY E. COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible fo the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.

LEONARD EASTWOOD, Vice President of the Society, represents the Yorkshire and Humberside Division. He was Director of Environmental Health for Rotherham until his retirement in 1976 and an active worker in air pollution control. He is a former Member of the Clean Air Council, Chairman of the Yorkshire and Humberside Division, Chairman of the Yorkshire and Humberside Pollution Advisory Council, and member of the Society's Parliamentary and Local Government Committee.

PROFESSOR PATRICK J. LAWTHER, CBE, MB, DSc, FRCP, Vice President of the Society and former President (1975/7), was educated at Carlisl Grammar School, Morecombe Grammar School and King's College London. After spending one year as a school master he went into the Chemical Industry which he left in 1945. In 1950 he qualified as an MB BS of the University of London (St. Bartholomew's Hospital). He joined the Medical Research Council in 1955 to found the Air Pollution Research Unit (now called the Toxicology Unit, Clinical Section). He is now the Physician in charge of the Department of Environmental and Preventive Medicine at Bart's and is Professor o Environmental and Preventive Medicine of the University of London at St. Bartholomew's Hospital Medical College. He acts as Consultant Adviser to the Department of Health and Social Security, and is Civilian Consultant to the Royal Navy in Environmental Medicine.

DR. ALBERT PARKER, CBE, DSc, FRIC, FIChemE, FIGasE, Vice President of the NSCA, is an Individual Member of the Society. He was President of the Society, 1963/5. He graduated from Manchester University, 1st class Hons. in 1912 and was Research Fellow, 1912-1914. He was appointed Lecturer, Birmingham University 1914-19; Inspector of Production of High Explosives 1914-18; Head of Research, Institution of Gas Engineers 1919-28; Assistant Directo and then Director Water Pollution Research Government DSIR 1928-43; Director of Government Fuel and Air Pollution Research 1943-56. H has been an Independent Chemical Engineering Consultant from 1956. He was Lt. Colonel in charge of the British and US team with the

American advance in the Ruhr, Germany in 1945. He has travelled in many countries as consultant, and has had hundreds of articles in books, journals and encyclopaedia published in various countries. He holds awards from the NSCA and several chemical and engineering societies in the U.K.

T. HENRY TURNER, MSc, CEng, FIMechE, FIM, Vice President of the Society, represented the East Midlands Division, NSCA until 1979, and is a Life Member of the Society. He attended the AGM of the NSAS as an individual subscriber in February 1945. He attended the Standing Conference of Co-operating Bodies for the first time in 1945, and since 1965 as "nominee". He was Chief Chemist and Metallurgist LNER 1930-50; Superintendent Metallurgy Division BR 1950-59; Metallurgist Editor "The Engineer" 1959-66. In 1947 he was elected the first Chairman of the Yorkshire Division, NSAS; in 1954 he was elected Chairman of NSAS East Midlands Division. From 1962/5, he was Deputy Chairman of the NSCA Council. He has attended 27 annual Clean Air conferences, and is a Covenant Subscriber to the Society.

RICHARD A.W. HOLLINGDALE is Honorary Treasurer of the Society. He represented the North Western Gas Board on the North Western Divisional Council from November 1952 to May 1976 and since that date has been an Individual Member of the Council. He was appointed Deputy Chairman of the NW Division for two years from June 1969 and Chairman of the NW Division for a further two years from June 1971. He was appointed NW Division representative on the Council of the Society from 1964, during which period he has been a member of the General Purposes and Finance and Conference and Publicity Committees. He was Deputy Chairman of the GP&F Committee, 1971/4. He was elected Honorary Treasurer to the Society in 1974/5 and re-elected for 1975/6, 1976/7, 1977/8, 1978/9, and 1979/80.

HOWARD I. FULLER, MA, FInstPet, Chairman of the Council of the Society, represents the Institute of Petroleum. He is a Principal Research Scientist at the Esso Research Centre, Abingdon, where he has worked for more than 30 years. His various activities include 6 years as technical adviser to Esso affiliates in countries of North Africa. For the last 15 years he has concentrated on environmental matters. He is now responsible for understanding and advising on public and governmental concerns about the environment with respect to Esso's products and operations. He has been a member of the NSCA Council since 1972.

A. JOHN CLARKE represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Headquarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. Mr. Clarke has served on the Council since 1967 and was Chairman of the Technical Committee 1972/1978. He is Senior Deputy Chairman of the Society and Chairman of the General Purposes and Finance Committee.

HARRY GIBLIN represents the Solid Smokeless Fuels Federation. He has spent all his working life in the solid fuel and solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 and in this position has helped Local Authorities in the implementation of their smoke control areas. He was appointed a Member of the Council of the Society in 1962 since when he has served on the Parliamentary and Local Government Committee. He was elected Deputy Chairman of the Society's Council in 1979.

PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and SE Divison, NSCA. He was Chairman of the Council of the Society 1978/79. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips: 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College in 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmospheric Environment). He has been a member of the Clean Air Council since

1968, and Chairman of its Technical Committee since its inception in 1975. He was an Alderman, London Borough of Merton (1971/78) and on the Metropolitan Water Board 1971/74.

THOMAS K. ASTON, FRSH, MEHA, represents the South West Division, NSCA. He is Chief Environmental Health Officer, Woodspring DC. He has been a member of the NSCA Council, and of the General Purposes & Finance Committee, since 1972. He became a Member of the Council of the Royal Society of Health in 1977. He has pursued a Local Government career in environmental health since 1945. His principal interest is in professional training, air pollution and noise control. As CPHI for Bristol, he was involved in the pioneering monitoring activities for lead emissions from the Lead Smelter at Avonmouth, which culminated in the Windeyer Report (1972). He has been a part time Lecturer at Bristol University since 1971, an examiner for the Royal Society of Health Diploma in Air Pollution Control in 1971, and for the qualifying examinations of the Environmental Health Education Board in 1974.

I.W. BARKER represents the Yorkshire and Humberside Division, and is Director of Environmental Health, City of Sheffield. He formerly held appointments with Manchester and with Leicester where he held the post of Assistant Chief Environmental Health Officer with special responsibility for Pollution and Noise Control. Prior to his present appointment, he was Chief Environmental Health Officer with Bracknell District Council. He has written and presented papers on air pollution and noise and in 1978 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.

MAX BEAUMONT, FInstE, CIMGTechE, MIPI, represents the London & South East Division, NSCA. He was educated at Dulwich College and joined the family firm as an apprentice steeplejack. He served as pilot RAFVR 1940/1946. He joined the NSCA in 1965, was elected to the Council in 1972 and is current Chairman of the Technical Committee. He is founder member & Past Chairman of the Environmental Protection Equipment Manufacturers Association, a Council member of the British Flue & Chimney Mfgs Assoc., and of the Federation of Environmental Trades Assoc. Past President of the National Federation Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group. He is a Member of eighteen BSI Technical Committees, and a holder of four British patents. He is Chairman of F.E. Beaumont Ltd.

EDGAR B. BRIGGS, CEng, MIGasE, FInstE, FInstPet, represents BP Oil Ltd. He has participated actively in the Society's interests since 1958 and been a member of the London and South East Divisional Council since 1977. His technical training was in the gas manufacturing and the coke-oven industries, followed by over twenty years in the petroleum industry, mainly on technical and environmental activities. He is a member of several industrial or professional institute clean air panels; a member of the Second Working Party on Grit and Dust Emissions, and also of the recent Working Party on Chimney Heights.

DR. F. ALAN BURDEN, PhD, BSc, ARCS, DIC CEng, FIGasE, CChem, MRIC, represents the Institution of Gas Engineers. He was educated at Watford Grammar School and Imperial College, London, graduating in chemistry in 1940 and returning to research in combustion in 1946. He joined the Gas Light and Coke Company in 1948 for research into gas making and purification. He transferred to the Coke Laboratory Watson House in 1953. He was responsible for work on the assessment and improvement of coke quality and coke-burning appliances, representing the Gas Council in developing British Standards for domestic coke. He is presently Scientific Secretary at Watson House. He has represented the Institution of Gas Engineers on the Council of the Society since 1962 and serves on the Technical Committee.

CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA. He has been a member of the East Midlands Division for twelve years and a Member of the Council of the Society for six years. He has been a Member of the Ashfield District Council and Kirkby-in-Ashfield UDC for fourteen years, was Chairman of the Kirkby-in-Ashfield UDC 1970/1, Chairman of the Kirkby-in-Ashfield UDC Health Committee from 1971/74, and Chairman of the Ashfield DC Environmental Health Committee, 1974 to the present time. He has served as Justice of the Peace for seven years.

JAMES C. CLANCEY, OBE, FIPHE, FRSH, MIEnvSc, MAmerPHA, represents the London & South East Division, NSCA, and the Royal Society of Health. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council He is Executive Vice President of the Royal Society of Health; Vice President and Chairman of Council of the Institution of Public Health Engineers; a member of Council of the Institution of Environmental Sciences and a past Vice President of the Environmental Health Officers Association. He was Chairman of the Council of the

Society, 1975/6. He has for thirty years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.

DEREK N. CLOUTING, BSc(Eng), CEng, FIEE, represents the Electricity Council. He is Deputy Marketing Adviser at the Electricity Council, Director of the Association of Short-Circuit Testing Authorities (Inc) and Director of the British Electrotechnical Approvals Board.

COLIN R. CRESSWELL, CEng, FInstE, MEHA, MIOA, represents the Northern Division, NSCA. He is the Secretary of the Northern Division and has been a Member of Council since 1976. He has been Chairman, North Eastern Branch, Institute of Acoustics for the past three years. He has been Principal Environmental Health Officer (Pollution Control), Newcastle upon Tyne since 1974, and for eight years previously was Divisional Officer responsible for Pollution Control in West Bromwich. He is author of a standard textbook on air pollution, numerous articles and papers and is a Royal Society of Health examiner. He was awarded a European Fellowship in 1972 and studies pollution control in West Germany. He was a member of the Domestic Coal Consumers Council 1975/78, and is a member of the BSI Committee on Industrial and Neighbourhood Noise.

K.B. DORMAN represents the Central Southern Division.

KENNETH S. DUNN CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co. Limited of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Honorary Secretary of EPEMA in March 1973.

KENNETH R. ENDERBY, represents the East Midlands Division NSCA. He has been City Environmental Health Officer, Peterborough City Council since 1974, and was previously Deputy Chief Public Health Inspector from 1961/74. He has been the representative of Peterborough City Council to the NSCA for 16 years, and a member of the East Midlands Division for 11 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference & Publicity Committee since 1974.

MISS MARY GEORGE, CBE, BA, Companion IEE, represents the Electrical Association for Women. She is an Individual life member of the Society. She was Chairman of Council 1975/6 and has been associated with the work of the Society for some 20 years. She retired from her post as Director of the Electrical Association for Women in 1976. She is currently Chairman of the Consumer Standards Advisory Committee of the British Standards Institution and a member of the Executive Board of the Institution; Member of Council of the Institution of Electrical Engineers; Member of the South Eastern Electricity Consultative Council; Member of the Industrial Tribunals Panel; Chairman of Council, Over Forty Housing Association for Women Workers.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For ten years he has been a Member of HM Colonial Service working in Uganda. For the last two years he has been a Member of the Scottish Branch NSCA and for the last four years specialist Smoke Control Officer, City of Edinburgh District Council. Served in RAF 1945/1948.

JOHN L. KAY GREEN represents the Asbestos Information Centre. After fifteen years' civil engineering experience with contractors and consultants he changed course to work in PR and publicity in the building and engineering industries. He was Group PRO with Turriff Construction Corporation 1962/68; Account Manager Interlink PR 1968/70; Head of Publicity Services, Morgan Crucible Co. Ltd. 1970/75, since when he has been appointed Group PR Manager, Cape Industries Limited and Committee Member of the Asbestos Information Centre, being nominated to the NSCA in 1976.

LEWIS HAY represents the Yorkshire and Humberside Division, NSCA. He has been a local government representative to the Society since 1960 and a Member of the Yorkshire and Humberside Division Council since 1975. As Chief Public Health Inspector of the former Bentley-with-Arksey Urban District Council he implemented the smoke control programme in 1971 for the whole area and this was completed in 1975 under the new Doncaster Metropolitan District Council, where he is now Deputy Chief Environmental Health Officer. During the period 1970/1974 he was a Member of the Department of the Environment Working Party on the Suppression of Odours from Offensive and Selected Other Trade, representing the Urban District Councils Association.

DAVID F. HAYNES, MP, represents the East Midlands Division. Mr. Haynes, who was elected M.P. for Ashfield in the May 1979 general election has attended and spoken at NSCA Conferences and has, since his election to Parliament, declared his intention of maintaining a close interest in the Society's work and aims. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

MRS DIANA HICKMAN represents the Electrical Association for Women. She joined EAW as London/South East Area Organiser in February 1977 after spending many years working in scientific research on consumer products, with much interest in conservation. She became the representative to the NSCA for EAW on the retirement of Miss O. Kenworthy, in 1977.

TOM H. IDDISON, MBE, FEHA, represents the Environmental Health Officers Association. His first public health appointment was with Staffordshire CC in 1930. He represented Dartford BC on the Society from his appointment as Chief Insepector in 1948 until his retirement in 1977. Since 1948 he has been a frequent participant in various capacities at Divisional Meetings and annual conferences. He has been Chairman of the Parliamentary & Local Government Committee since 1968 and was Chairman of the Council of the Society 1977/78. He has been a member of the Clean Air Council since 1970 and Chairman of its Law and Administration Committee. He is also Chairman of the Standing Conference of Co-operating Bodies. He was a member of the Council of EHOA from 1961/75, Chairman of its L&P Committee 1970/73 and of its General Council in 1971.

CLLR. MRS ELIZABETH JANE INGLEFIELD represents the East Midlands Division. She was Vice Chairman of the Health Committee on High Peak Borough Council, 1974/1977, and is now Chairman of Housing Committee. She represented High Peak BC on East Midlands Division, NSCA from 1974/1977, and has been on the Divisional Council of that Body for past three years. She was Chairman, Derbyshire Advisory Council for Clean Air 1975/76. She has been an Independent Member of NSCA for past two years. She is on the Management Committee of the Housing Centre Trust (North West Division) and represents High Peak Borough Council on the National Housing and Town Planning (East Midlands).

TERRY JONES, DMA, MEHA, represents the South & Mid Wales Division NSCA. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise and toxic waste disposal etc. Prior to Local Government reorganisation was employed with three other Authorities. Past Chairman of Gwent Branch of the Environmental Health Officers Association. He has recently been appointed Hon. Secretary of the South & Mid Wales Division NSCA.

JAMES R. LAMONT represents the Northern Ireland Division, NSCA. He is Honorary Secretary of the Northern Ireland Division of the Society. He was educated at the Royal Belfast Academical Institution, qualified as a Public Health Inspector in 1962, employed by Belfast County Borough and subsequently Down County Health Committee. On re-organisation of local government he was appointed Principal Public Health Inspector (Pollution Control) with Eastern Group Public Health Committee (a consortium of five district councils) and is currently Environmental Health Officer with Department of the Environment (Northern Ireland). He is a member of EHOA and was Centre Councillor of that body for ten years, past Chairman and Honorary Secretary of the Northern Ireland Centre.

Cllr. C. LEWIS represents the South and Mid Wales Division. He is a member of the Conference and Publicity Committee and is Chairman of the Welsh Division.

IAN R. LIVERSIDGE, FRSH, MEHA, AMBIM, represents the North West Division, NSCA. As Director of Environmental Health, Bolton MBC, he is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough Council is actively pursuing a phased programme of domestic smoke control and allocates some £60,000 annually to this work. The Council has been part of the Warren Spring Heavy Metals Survey in urban areas, and under th direction of Mr. Liversidge, operates an Industrial Liaison Committee which seeks, with the co-operation of local industry, to evaluate and ameloriate the problems of industrial pollution. A major achievement has been the extremely high standards of pollution control at a newly established major motive power batter manufacturing plant, one of the largest in Europe.

IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical Committee and is Vice President of the Scottish Division of the Society, having been a Member of the Society for some eighteen years. He is a Member of the Clean Air Council for Scotland and a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

JOHN B. MARSH, FRSH, MEHO, represents the North West Division. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 21 years. He is a Member of the Royal Society of Health and a Member of the Environmental Health Officers' Association and has also been an Examiner on the Environmental Health Officers' Education Board for the last 11 years. He has been keenly interested in all forms of pollution and its prevention and has been a long standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

MRS. R. McLUSKY represents the Women's Gas Federation and Young Homemakers. She is a member of the Society's Conference and Publicity Committee and lives in Harrogate, Yorkshire.

PATRICK McPARTLIN, CEng, MInstE, MIPlantE, AMBIM, represents the Scottish Division, NSCA. He is Managing Director, Scottish Rexco Ltd.

MRS. E.M.L. NAYLOR represents the Women's Solid Fuel Council. She has been associated with the Women's Solid Fuel Council for over 20 years and is the present Chairman of the London and Southern Region W.S.F.C. Mrs Naylor is a Member of the Royal Society of Health; Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council; Past President of United Kingdom Federation of Business and Professional Women. She is currently Area Organiser and Lecturer for J.P. Coats Ltd. in Arts and Crafts.

ALFRED G. O'GILVIE represents the London & SE Division, NSCA. He was formerly Principal Public Health Inspector in charge of Air Pollution, the London Borough of Southwark, and Asst. Chief Public Health Inspector (food and other services). Whilst in his former position he investigated and established the presence of massive lead pollution from local lead works in Bermondsey which was known nationally as the "Enthoven Incident". Local residents, to show their personal gratitude, elected him 'Honorary Member of Down-Town Tenants' Association'. Resulting from the incident procedures were evolved regarding environmental control of new lead refining works.

ROGER PANE, MInstM, represents the Low Temperature Coal Distillers Association. He is Director of Coalite Group Ltd., and Director, British Coke Export Sales Corporation Ltd. He has been an Individual Member of the Society for many years and served as an elected representative of the East Midlands Division on the Council of the Society. He currently serves on the Parliamentary and Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.

ERIC A.K. PATRICK, BSc, CEng, FRIC, FIChemE, FIGasE, SFInstE, FCIBS, represents the British Gas Corporation. He is Director of Watson House,Fulham, one of the British Gas research stations. He was educated at Christ's Hospital, Birkbeck College and Battersea Polytechnic. He joined the Fulham Research Laboratories of the Gas Light and Coke Company in 1939 and worked in the coke group as a laboratory assistant, largely on small-scale gas producers. He was transferred to the industrial laboratory at Watson House in 1945 and was in charge of the laboratory from 1952/1962. In 1962 he was appointed Research Manager. He became Research and Development Manager in 1969 and Assistant Director (Research and Development) 1970. He is Chairman of the Membership Committee of the Institution of Chemical Engineers, and has also been President of the London and Southern Junior Gas Association. He has been a Council Member of the Heating and Ventilating Research Association, and its successor, since 1966, being Chairman of Council from 1973/75. He is a Member of the NSCA's Technical Committee.

KENNETH H. PEARSON represents the Industrial Gas Cleaning Association. He is Managing Director of Sturtevant Gas Cleaning Limited.

WILLIAM E. POLLITT, FEHA, MRSH, MInstSWM, represents the North West Divison, NSCA. He has been a Member of Council since 1964. He was Honorary Secretary of the North West Division, 1964/1979, and is Assistant Environmental Health Manager, City of Salford.

CLLR. LEN POOLE, BEM, JP, represents the Northern Division, NSCA. He has been Chairman of the Northern Division and a Member of

Council since re-organisation of local government. Also since that time he has been Deputy Chairman of the NSCA's Conference and Publicity Committee. He has been Chairman of the Environmental Health Committee, Middlesborough BC (since re-organisation) and Chairman of the Community Health Council, South Teeside (largest in Northern Region). He has been responsible in the last few years for persuading his Council to complete its domestic Smoke Control programme by 1970 (in spite of financial cut-backs). He is Chairman of the Boroughs of Cleveland Pollution Group (Industrial Pollution).

CLLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a Member of the Society's Conference and Publicity Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past twenty nine years and is a former employee of the Ministry of Defence.

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. In 1978 he was elected as Honorary Secretary of London, South East and Central Southern Divisions.

L. EWEN ROBSON, MRSH, MIOA, Associate of the Institute of Energy, represents the South West Division, NSCA. He was appointed Specialist Inspector for Atmospheric Pollution and Noise for Bristol in 1969. Since 1973 he has been the Assistant Chief Environmental Health Officer, Bristol City Council. He is a Member of the Environmental Health Officers' Association, and is on the Western Centres Technical Committee on Environmental Pollution. He is a Member of the Institute of Acoustics and has lectured extensively on both air pollution and noise topics at Bristol Polytechnic, Bristol and Southampton Universities. He is currently Chairman of the Bristol Water Study Group, and a past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.

MRS. JOYCE SAUNDERS, OBE, BSc, MInstE, AFIMA, represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1968 and also became a Member of the NSCA Council in 1968. She was appointed to the Domestic Coal Consumers Council in 1970 and to the Clean Air Council in 1977. She is a Lecturer at Brunel College, Bristol.

REV. BRIAN N. SHACKLETON represents the West Midlands Division, NSCA.

RONALD F. SHAPTER, FEHA, represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He has been a Local Government representative to the Society since 1956, a Member of the Divisional Council from 1964, and was Honorary Secretary of the South East Divisional Council 1969/74. He has been Chairman of the London, South East and Central Southern Division from 1977. He has been a Member of the Council of the Society since 1969, was formerly a Member of the Conference and Publicity Committee and is now a Member of the General Purposes and Finance Committee. Whilst Chief Public Health Inspector of High Wycombe he drew up and was responsible for the implementation of the programme of Smoke Control Areas. Apart from the normal control of Industrial Smoke, a special study was made of the problems associated with the concentration of the furniture industry at High Wycombe and the burning of the resultant wood waste in many forms.

WILLIAM N. SHIRES represents the North West Division, NSCA. From craftsman electrician he joined the Electricity Supply Industry in 1939 and held progressive commercial posts in the North Western Electricity Board and Merseyside and North Wales Electricity Board, becoming Chief Commercial Officer in 1978. He has a long interest in the environment and clean air, and is currently Chairman of the North West Division of the Society. He is a Chartered Engineer, a Member of the Institute of Electrical Engineers and a Member of the Chartered Institution of Building Services.

BILL F. SNOW, MEHA, MInstSWM, represents the North West Divison, NSCA. Commenced Local Government service in 1958 as a student Public Health Inspector Border RDC. Appointed district Public Health Inspector to Accrington BC in 1962. Appointed Deputy Chief Public Health Inspector to Warrington RDC in 1969. Appointed to present post of Chief Environmental Health Officer to Warrington BC on 1st April 1974. He has been interested in Air Pollution Control since the early 1960's when Accrington commenced its Smoke Control Programme. With the support of Warrington BC it is intended to complete the Council's Smoke Control Programme on 1st September 1980, when the final Smoke Control Order comes into operation. He has been a Member of the North West Divisional Council since 1976, and was newly elected to represent the North West Division on the Council for the Society in June 1979.

GEORGE C. STUBBS, FEHA, represents the London & South East Division NSCA. He is a life member of the NSCA, and is a retired Divisional Public Health Inspector, having a special interest in air pollution control. He was elected to the Council of the South East Division at its first meeting, and has acted as Minute Secretary for many years. He was elected to the Council of the Society in 1961 and is a member of the Technical Committee.

TREVOR TOWNSEND, MEHA, represents the West Midlands Division and is currently Principal Environmental Health Officer (Environmental Pollution and Health and Safety) with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities in the main specialising in air pollution and noise control. He has been Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control since 1975 and lecturer for the Royal Society of Health Diploma in Air Pollution at Aston University since 1974.

ALAN TRAYNOR represents the North West Division, NSCA. For many years he has been a Member of the North West Divisional Council. From 1963 until 1974 he was Honorary Technical Officer to the South East Lancashire and North Cheshire Consultative Committee for the Investigation of Atmospheric Pollution and Noise: he is now Technical Officer to and Chairman of the Technical Advisory Committee of the Manchester Area Council for Clean Air and Noise Control; since 1966 he has been a Member of the Clean Air Council. He was formerly Chief Public Health Inspector, Droylsden UDC, then of Middleton BC. He is now Director of Environmental Health Services, Rochdale MBC.

WILLIAM B. TWYFORD represents the Yorkshire & Humberside Division, NSCA. He has been actively involved with the work of the Society for the past 21 years. For most of that time he has been a Member of the Yorkshire & Humberside Divisional Council, he is a past Vice Chairman of the Division, currently serves as Honorary Secretary. In recent years he has been Chairman of the Society's Conference and Publicity Committee. He was responsible for the introduction of smoke control within the former City of Wakefield, the last Order being made immediately prior to Local Government re-organisation.

FREDERICK ERNEST WALSH represents the London and South East Division, NSCA. He was formerly Senior Public Health Inspector of the London Borough of Hammersmith. He was a delegate to the late Smoke Abatement Society; Member of the NSCA since 1971; Vice Chairman of the London and South East Division 1978/79. He was appointed a Member of the NSCA Council in 1979.

ROBERT W.C. WHEATLEY represents the National Coal Board. He was born in Berwick-on-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he was appointed Technical Marketing Director. In 1978 he became Director (Administration and Technical) in which post his main responsibilities include staffing and administrative matters, the marketing aspects of coal preparation and quality control and the development of new types of solid fuel burning appliances and equipment. He has been a member of the Technical Committee of the Society since 1964 and a Member of the Council since 1966.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to Newcastle-upon-Tyne City Council in May 1963. He is Chairman of the Health and Environment Committee and Chairman of the Hackney Carriages and Private Hire Sub-Committee. In addition, he is a Member of the Policy Resources Committee. He was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977, and now Vice Chairman in 1979 again. He is a Trustee of the North Eastern Railway Cottage Homes and Benefits Fund.

ANNUAL REPORT & ACCOUNTS

Although the year under review contained no very spectacular event the Society has been very busy. Recovering from the reorganisation of local government, I am glad to report, activity in the divisions has livened up. Smoke control continued to make progress in spite of the difficult economic situation which local authorities are now in, and it is very gratifying to report that the City of Newcastle upon Tyne is now completely subject to smoke control. Clydebank is the first local authority in Scotland to be fully smoke controlled.

Last year my predecessor Mr. Tom Iddison reported that on three occasions local authorities had sought the revocation of existing smoke control orders. The Society strongly opposed these moves and the revocation was successfully prevented: it is most gratifying to report this year that no such attempts have been made.

We have been waiting for a sign that some of the 94 recommendations of the Fifth Report of the Royal Commission on Environmental Pollution, published in January 1976, were to be implemented, and our President, whom we heartily congratulate on his life Peerage, has voiced misgiving about this on more than one occasion. One is tempted to infer that the authorities see the terms of reference of such Commissions much more narrowly than do the Commissions themselves, and it is relevant to remark that there has been little, and even that only very slow, action on the very forthright reports 'Sinews for Survival' and 'The Human Environment - The British View' published as long ago as 1972, for the UN Conference in Stockholm.

Likewise there has been little activity in the EEC. The impression has been created that we in Britain are reluctant to put forward concrete proposals and are reluctant to accept instructions from others. In a sense our Society, which played a very important role in the promoting, passing, and implementing of the Clean Air Acts bears some responsibility for this, for while the approach in this country is to facilitate a progressive change, largely based on local initiative, the EEC approach appears, to us at least, to be based on centralised edict - 'Thy SO_2 shall not exceed ...' etc.

It is hard work to persuade a world bemused by scientific magic that the real task is to devise methods of achieving a goal without unnecessary expense and upsetting other arrangements, and to bring it about because people want it. The straight declaration of an ideal or objective to be attained is, in the end, far less effective than going as far as possible now, and trying to make further progress practicable by technological advance. Statements about how we have achieved (ahead of others) what we have are looked upon, in a very theoretical way, as an excuse for going no further, and we have a very important task in Europe - and the world - in putting over our gradualist and evolutionary concepts to people who believe that science and technology will enable us to plan all detail in advance.

Our Society therefore has not concerned itself narrowly with details of Clean Air; it is part of our creed to be informed about a wide range of environmental matters. In the year under review we had a very successful Workshop on Planning and the Environment at Badock Hall in the University of Bristol, 94 delegates or members attended, which was an increase on the Workshop of the previous year held in Manchester, and we toured the modern chemical industrial complex of Avonmouth and neighbouring residential areas. A full report was given in the Summer 1978 issue of Clean Air.

The most recent Workshop, which was planned during the year under review but which took place at the University of Warwick (Coventry) in April 1979 will be reported upon next year but I can say that it was a very successful occasion, and brought many new people into thinking about perhaps the most serious outstanding problem in air pollution in the world, namely that from motor vehicles. The Society's Technical Committee has promoted a booklet on this subject, which my predecessor hoped would soon be published. It is, I regret to say, not yet out. However it will be on sale very shortly, I am assured. Important to appreciate that the subject is very complex and rapidly developing and provides a good example of the way regulations are forced to take certain forms by the nature of the investments already made in the car industry and the state of the international vehicle market. Pure ideals and platitudes serve little purpose in such a situation, and the technical committee has been very concerned during the year that Europe should pursue a sensible policy on the lead content of petrol.

The Parliamentary and Local Government Committee has had a very full year, as might be expected while the new local authorities are still finding their feet. On November 28 we had a one-day teach-in in the lecture theatre of the Society of Chemical Industry. It was arranged for elected members of local authorities and was attended by 67 people and the discussion was lively. It success encourages us to hold further such teach-ins in future. This one was about the law relating to air pollution and the next, in November will be concerned with noise. The Society has an important job to do for elected members, many of whom are quite new to their problems.

The Conference and Publicity Committee has, in addition to the meetings already mentioned, organised the annual conference next October at Scarborough, and the Workshop to be held next spring at Sheffield University. Clean Air is now published six times a year and is printed at the Society's headquarters in Brighton. A second edition of the Members Handbook and a new Reference Book were also published during the year, and have both been well received.

The General Purposes and Finance Committee have supervised a successful year from the financial viewpoint. This is very important because we must be sure that we can pay our staff adequately, and the conditions of service of all members of staff have been reviewed and arrangements brought into line with current legal requirements. We are keeping our eyes open for possible new premises in case it is decided that we cannot stay where we are when the lease runs out next November. This is a matter of very considerable importance, but it is to some extent overshadowed by the impending retirement of the Secretary-General Admiral Sharp later this year. A small sub-committee has been set-up to seek his successor and you will have seen the advertisement in Vol. 9, No. 2 of Clean Air.

The Society is grateful for the loyalty and fine spirit with which our staff conduct its work in addition to our own publications we also provide secretarial backing for the Environmental Protection Equipment Manufacturers Association (EPEMA) whose Chairman is Mr. Max Beaumont, the current chairman of the Society's Technical Committee. Some extra work has, of course, resulted but the manufacturers of pollution control equipment and protection of the environment generally are properly represented within the Society. We should remind ourselves also that our office now provides the Secretariat of the International Union of Air Pollution Prevention Associations (IUAPPA) and I can report that our first full year in that role has successfully laid the foundations of a sound organisation. Dr. Jose A. Rispoli and Dr. Damian D. Torti the current President and Vice-President spoke from the platform of the opening session of our annual conference at Brighton about the Fifth International Clean Air Congress to be held in Argentina in October 1980.

The conference held at the Old Ship Hotel, Brighton was opened by Cllr. Mrs. Hilary Sommerville, Deputy Mayor of Brighton, and there were more delegates present than at the Harrogate Conference the previous year. The theme 'Why Clean Air?' created considerable press interest and was well noted in the media. The Presidential Address was entitled 'Energy and the Environment - The Public Debate' (published in the issue of Clean Air referred to above) illustrates the wide range of the Society's concern.

The Society is well represented on outside bodies. The chairman of three of the four standing committees of the Clean Air Council are still drawn from the ranks of our Society and we have a large number of members representing local authorities, firms, and other organisations on the Standing Conference of Co-operating Bodies, whose chairman is my predecessor Mr. Tom Iddison.

We are also represented on the Committee for Environmental Conservation (CoEnCo), and we are, of course, a member of IUAPPA. I have had the privelege of representing the Society on committees of the District Heating Association, who like us, is very much concerned with the changes that will occur as the nature of our energy sources changes.

I would like to thank all the members of the Council for the work they have done for the Society both in the Council and on the various committees, and perhaps particularly our Treasurer, Mr. R.A.W. Hollingdale, and President, Lord Flowers, who were re-elected for a further year at our last Annual General Meeting. I wish also to repeat my mention of the work of our staff whose devoted efforts are well and most deservedly appreciated. I think that this year it is appropriate to end by congratulating specially the members who do the hard work on our Divisional Councils, and particularly the Honorary Secretaries of the Divisions. We are most grateful to them, and I wish to tell them that we look to them for yet more activity in the future. Knowing that the Society has a membership from whom such valuable people can be drawn and a staff with whom it is a pleasure to work it has been a privilege for me to act as your chairman and I wish my successor an interesting and eventful year.

R.S. Scorer
Chairman

REPORT OF THE AUDITORS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have examined the Balance Sheet and annexed Income and Expenditure Account which have been prepared under the historical cost convention. In our opinion, the Accounts comply with the Companies Acts, 1948 and 1967 and give a true and fair view of the state of the Society's affairs at March 31st, 1979 and of its surplus for the year ended on that date.

City Gate House
39/45 Finsbury Square
London EC2A 1AE

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

5th June 1979

BALANCE SHEET AS AT MARCH 31, 1979

		31.3.79		31.3.78	
	Notes	£	£	£	£
FIXED ASSETS					
OFFICE MACHINES AND FURNITURE					
As valued by the Secretary General as at 1.4.72	2	1,910		1,910	
Additions at Cost (1978/79 - £2,279)		7,480		5,201	
		9,390		7,111	
Less Depreciation (over 5 years)		7,510		6,848	
			1,880		263
LIBRARY BOOKS					
At Nominal Value			100		100
			1,980		363
INVESTMENTS AT COST	3				
Fixed Interest Stocks		3,270		3,270	
Ordinary Shares		10,426		10,426	
			13,696		13,696
CURRENT ASSETS					
Stock of Publications at Secretary General's Valuation		1,325		1,020	
Sundry Debtors		2,251		1,378	
Prepayments		63		927	
Bank Balances		32,810		23,362	
Cash in Hand		38		24	
Funds held by Divisions		989		709	
		37,476		27,420	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		5,599		5,541	
Net Current Assets			31,877		21,879
NET ASSETS			£47,553		£35,938
Represented by:					
GENERAL FUND					
Balance at start of year			27,860		19,800
Surplus for the year			11,615		8,060
Balance at end of year			39,475		27,860
PREMISES FUND			8,078		8,078
			£47,553		£35,938

R.A.W. HOLLINGDALE - Honorary Treasurer
P.G. SHARP - Secretary General

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED MARCH 31, 1979

			31.3.79		31.3.78
	Notes	£	£	£	£
INCOME					
SUBSCRIPTIONS AND DONATIONS			34,157		32,209
CONFERENCE - Brighton 1978/79 Harrogate 1977/78					
Income		11,761		9,654	
Expenses	4	7,862		7,601	
			3,899		2,053
SEMINAR - Bristol 1978/79 Not Held 1977/78					
Income		3,409		-	
Expenses		4,005		-	
			(596)		
ONE DAY TEACH-IN					
Income		603		-	
Expenses		463		-	
			140		-
SALES OF PUBLICATIONS			5,942		4,418
INVESTMENT INCOME					
Dividends (Gross)		2,017		1,711	
Interest		2,582		1,823	
			4,599		3,534
			48,140		42,214
EXPENSES					
RUNNING COSTS					
Salaries and Wages including N.I.C.		30,299		27,449	
Less: Recharged to Conference and Seminar		6,060		5,490	
		24,239		21,959	
Staff Pension Scheme		153		124	
Rent, Rates, Light and Heat		2,534		2,414	
Insurance, Travel, Cleaning and General Expenses		6,816		5,948	
Depreciation: Office Equipment and Furniture	2	662		631	
Stationery/Supplies		1,005		857	
Provision for Doubtful Debts		568		(653)	
		35,977		31,280	
Less contributions to expenses from IUAPPA and EPEMA		5,910		1,946	
		30,067		29,334	
CLEAN AIR AND MEMBERS' HANDBOOK					
Printing, Postage, etc.		5,545		4,811	
Less Advertising Receipts		1,482		1,223	
		4,063		3,588	
INFORMATION, PUBLICITY SERVICES AND COST OF PUBLICATIONS		1,641		1,133	
DIVISIONAL EXPENSES		755		99	
		2,396	36,526	1,232	34,154
SURPLUS FOR YEAR TRANSFERRED TO GENERAL FUND			£11,615		£8,060

NOTES TO THE ACCOUNTS

1. Lease:

The Society bought the lease of its Brighton offices (which is for 14 years from November 15, 1965 and the cost of £2,000 was deducted from the Premises Reserve Fund.

2. Office Furniture and Equipment:

Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and were included in the Accounts at this figure. Subsequent purchases are being written off over 5 years.

3. Investments:

The market value of the Society's Investments as at 31.3.79 was	£25,457
31.3.78 was	£22,069
Increase	£3,388

4. Salaries and Wages Recharge:

The expenses of the Conference and Seminar 1978/79 only) include 20 per cent of salaries apportioned in the estimated ratio of the numbers attending the functions as follows:

	1978/79		1977/78
Conference - Brighton	4,500	Harrogate	5,490
Seminar - Bristol	1,560	-	-
	£6,060		£5,490

DIVISIONAL MEMBERSHIP & REPORTS

Division 1
SCOTTISH DIVISION
President: D.M. Wardley
Hon. Secretary and Treasurer: F.J. Feeley

A number of meetings were held during the year at which the main item discussed was the question of the increase in sales of illegal fuels in smoke control areas. A number of possible courses of action were considered and meetings were held with the Approved Coal Merchants Scheme (Scottish Regional Panel) and the Coal Merchants' Association of Scotland. The Division feel that more needs to be done and further detailed consideration will now be given to the matter.

On 1st June, 1979 the Division held a One Day Seminar in Falkirk which was well attended and at which a large number of local authorities were represented. There were two sessions, the first one being "District Heating" and the second "The Coal Merchant's Role in Clean Air". Both sessions provoked a great deal of lively discussion.

There was no change in divisional officers but Mr. I.B. Anderson of Inverclyde retired as one of the divisional representatives on the Council of the Society and was succeeded by Mr. E. Gibson of Edinburgh.

F.J. Feeley
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Scottish Division)
Edinburgh, City of
Glasgow, City of
National Coal Board
South of Scotland Electricity Board
The Scottish Gas Board

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Hamilton District Council
Inverclyde District Council
Inverness District Council
Kirkcaldy District Council
Midlothian District Council
Monklands District Council
Motherwell District Council
Renfrew District Council
Stirling District Council

CORPORATE MEMBERS

Greater Glasgow Health Board
Lothian Health Board
North of Scotland Hydro
Electric Board
Scottish Rexco Ltd.
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Anderson, R.P.
Bulcraig, Dr. W.R.
Christie, J.H.
Dunlop, W.A.
Foreman, J.
Hally, J.
Jackson, J.
MacPherson, I.
McGhie, J.R.
Ramsey, Captain E.C.

Division 2
NORTHERN IRELAND DIVISION
Chairman: R. Campbell Brown
Hon. Secretary: J.R. Lamont

An open meeting of the Northern Ireland Division of the Society was held on Thursday, 9th November, 1978, in the Group Theatre, Belfast. Belfast City Council most generously placed the theatre at the disposal of the Division and the meeting was the first to be held there following extensive renovation.

There was a good attendance from local and central government and from the fuel industry. Mr. R. Campbell Brown, Chairman of the Division, introduced the guest speaker, Rear Admiral P.G. Sharp, Secretary General of the Society.

The Secretary General gave a paper on air pollution controls in which he considered the development and progress of the clean air cause and pointed out the comparative state of play in Great Britain and in Northern Ireland. In a very wide-ranging paper the speaker reported on the European and indeed world-wide approach to pollution control, discussing a number of sources including motor vehicle emissions. Admiral Sharp considered the future and speculated on how the control of air pollution might be developed over the next few years.

At the conclusion of the paper a number of delegates took part in a discussion and the Secretary General dealt with questions from the floor. Mr. J. Stanley Gardiner (Shell), vice-chairman of the Division, in proposing a vote of thanks to Admiral Sharp, shared some personal memories of previous visit to Belfast of our speaker, notably to take command of a ship, and invited those present to express their appreciation. The warm way in which this was done demonstrated the feelings of the meeting.

J.R. Lamont
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Belfast, City of

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council
Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPORATE MEMBERS

Eastern Health & Social Services Board

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Brindley, D.
Burke, V.I.
Cave, S.A.
Hanna, B.P.
Lynas, K.H.

Division 3
NORTHERN DIVISION
Chairman: Cllr. L. Poole
Hon. Secretary: C.R. Cresswell

Forty-seven members attended the Annual General Meeting which took place in Newcastle upon Tyne on 25th June 1979. The Chairman, Secretary and Divisional Representative to the Council were re-elected unopposed, but it was necessary to hold a ballot for the two offices of Vice-Chairman; the members elected were Mr. L. Mair, O.B.E. and Councillor T.W. Yellowley, M.B.E.

Discussions took place about payment of grant towards the provision of fans to existing underdraught fires in smoke control areas, the sale of coal from retail shops in smoke control areas and the activities of the Joint Clean Air Committee for the North East. The main speaker at the meeting was the Secretary General, Admiral Sharp, who reviewed the progress made by the Society since he joined it at the beginning of 1968 and gave some personal opinions on the ways in which the Society could develop in the years to come.

As this was probably Admiral Sharp's last visit to the Northern Division before retiring, he was warmly thanked for all he had done for the Society and wished a long and happy retirement.

Due to a long spell of industrial action in the North East which drastically reduced postal and telephone services, it was only possible to hold one other meeting during the year. This was held in Gateshead during March when fifty-one members enjoyed an interesting and informative presentation by Phillips Petroleum Products Ltd. which ranged over the whole oil industry and, in particular, dealt at length with the Ekofisk field.

Membership has remained fairly static during the year, although a number of attempts have been made to recruit new Corporate and Individual Members with a small degree of success in the latter class. The Divisional Council did not meet during the year, it being found possible to discuss essential business at the meetings of the Division.

C.R. Cresswell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Teesside Division)
Central Electricity Generating Board (North Eastern Region)
National Coal Board
Newcastle Upon Tyne, City of
Northern Gas Board
Suderland Borough Council

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow in Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
Middlesborough Borough Council
North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Wansbeck District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (Northern Region)
Nailsea Engineering Ltd.
North Eastern Electricity Board
Proctor & Gamble Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Calvert, Mrs.M.R.
Carr, W.
Cayton, S.
Chambers, A.
Cosgrove, J.
Eve, Mrs.M.E.
Graham, J.V.
Issac, Prof. P.C.G.
Mair, L.
Reece, R.
Spriggs, Dr.E.A.
Walker, A.S.
Wilkinson, J.R.

Division 4
NORTH WEST DIVISION
Chairman: J.R. Teale
Hon. Secretary: W.E. Pollitt

The Annual General Meeting of the North West Division of the National Society for Clean Air was held at the Headquarters of M.A.N.W.E.B., Sealands Road, Chester, on Wednesday, 14th June 1978.

The Annual General Meeting which commenced at 10.30 a.m. was followed by a most informative paper given by Mr. R.A. Scrivens, Head of the Environmental Physics Section, Central Electricity Research Laboratories. Mr. Scrivens paper dealt with "Stack Emissions" and this created much discussion amongst the members.

Members attending the Annual General Meeting were entertained to luncheon by the kind invitation of M.A.N.W.E.B. and N.O.R.W.E.B.

Again during the year efforts have been made to involve the whole of the membership in the activities of the Division and as a result of this policy only two business meetings of the Divisional Council have been held, but two visits involving the whole membership were arranged. These visits were to Ibstock Brick at St. Helens and to Heysham Nuclear Power Station, and both proved to be of great interest to members.

A visit to Calder Hall was also arranged but this had to be cancelled due to industrial action at Calder Hall.

At the first business meeting of the Divisional Council held in September 1978 Mr. H. Clusky was elected Honorary Treasurer for the year 1978/79 and Mr. W.E. Pollitt was elected Honorary Secretary for the same period.

Mr. Pollitt informed the meeting that he would be retiring from Local Government service on 28th January 1980 and the Division should look now for a new Honorary Secretary.

The year under review has been again very quiet, no real problems appear to have arisen, but the Division's work in the propaganda field has proceeded with lectures and talks to schools and various organisations.

As this would appear to be the last Annual Report I shall compile as Honorary Secretary I wish to take this opportunity to thank all members of the Division for their kindness and cooperation during my fifteen years as Honorary Secretary of the North West Division.

W.E. Pollitt
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bolton Borough Council
Central Electricity Generating Board (North West Region)
Cheshire County Council
Liverpool, City of
Manchester, City of
National Coal Board
North Western Electricity Board
North West Gas Board
Salford Metropolitan District Council
Sefton Metropolitan District Council
Shell Chemicals Ltd.
Stockport Metropolitan Borough Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Council
Halton District Council
Hyndburn District Council
Knowsley Metropolitan Borough Council
Macclesfield District Council
Oldham Metropolitan Borough Council
Pendle District Council
Ribble Valley Borough Council
Rochdale Metropolitan District Council
Rossendale Borough Council
South Ribble Borough Council
St.Helens District Council
Tameside Metropolitan District Council
Trafford Borough Council
Warrington Borough Council
West Lancashire District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (North West Region)
Greater Manchester Council for Clean Air & Noise Control
Merseyside & North Wales Electricity Board
Sutcliffe Speakman & Co.Ltd.
The Woolton Society

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Amery, A.J.T.
Behrens, A.G.
Cass, H.V.
Chandler, Professor T.J.
Christian, F.V.
Clusky, H.
Cook, Miss H.M.
Evans, T.
Fallows, W.B.
Franklin, E.J.
Franklin, N.J.
Gee, Mrs.J.
Gee, J.
Hall, A.
Halliday, A.C.
Hayhurst, H.
Hayhurst, Mrs.K.M.
Heald, Dr.G.E.
Hendy, Dr.B.
Hinds, L.R.
Horton, P.H.
Hollingdale, R.A.W.
Hough, D.A.
Jackson, C.L.
Jewsbury, S.
Kitchener, Earl.
Leech, Dr.P.W.
Lloyd, A.

Lowe, T.H.
Mather, Sir William
McGauley, H.J.
Parsonage, H.
Pollitt, W.E.
Potter, N.M.
Ragget, G.
Richards, J.E.
Shaw, Mrs.M.
Smith, D.
Sutcliffe, K.S.
Taylor, A.
Thomas, F.L.
Vanstone, H.B.
Winder, F.

Division 5
YORKSHIRE & HUMBERSIDE
Chairman: J. Rooke
Hon. Secretary: W.B. Twyford

The calendar of meetings held during the year is set out below:-

DIVISIONAL COUNCIL

27th September, 1978	Wakefield
22nd November, 1978	Knottingley.
25th April, 1979	Melton.

OPEN MEETINGS

27th September, 1978	County Hall, Wakefield
22nd November, 1978	Rockware Glass, Knottingley.
25th April, 1979	Blue Circle Cement, Melton.

The extremely severe weather conditions, which affected the first three months of 1979, have limited the number of meetings held during the year. Although the number of meetings has been fewer than usual the range covered has been quite extensive, including the drilling for North Sea Oil, the manufacture of glass products, and the manufacture of cement, and it will be appreciated that all three of these industrial processes pose their own particular problems in relation to environmental pollution.

As one year follows another it becomes increasingly difficult to find places of interest at which to hold meetings of the Division, and if any member, individual, local authority or industrial, knows of processes which are of particular interest and where the occupiers of premises would be prepared to afford us facilities for holding a Divisional Meeting, I should be very pleased to receive their suggestions.

During the year one particularly important matter was referred to the Divisional Council by Calderdale Metropolitan Borough.

This concerned the decision of the local Ombudsman in relation to an approach which had been made to him for increased grant in a fireplace conversion in a smoke control area. Hitherto I think it is fair to state that all local authorities have adhered closely to the guide-lines set out by the Department of the Environment. In the Calderdale case a householder, who had a particularly expensive fireplace installed in one room, made a request for increased grant on the grounds that the aesthetic appearance of the standard type appliance would have detracted from the value of his fireplace surround and of the room, and this view was largely supported by the Ombudsman.

Whilst it is appreciated that the Ombudsman's findings do not have the force of law, they cannot be lightly disregarded, and the Divisional Council has referred the matter to Headquarters for consideration by the appropriate Committees of the Executive Council.

In my last Annual Report I made reference to co-operation between the Divisional Council and the Yorkshire and Humberside Pollution Advisory Council on the development of an exhibition unit. Unfortunately progress has not been possible in this connection largely due to the pressure of work falling upon the Secretaries of the two Organisations which imposes limits on the amount of time they have available to undertake work of this nature.

I would once again make comment on the very poor response which the Society receives to invitations to attend open meetings of the Division. If all members were to utilise fully their facilities we would regularly expect attendances to exceed 100 persons at an open meeting, whereas, in fact, we do well if the number present exceeds 30. This is a discouraging state of affairs to the Honorary Officers of the Division and to the Divisional Council, and it is also disappointing to Companies who are kind enough to act as hosts to our meetings when the number attending is so small.

Bearing in mind the current trend to take all possible action to protect our environment, I would particularly press all members to encourage their colleagues concerned with environmental protection to take an interest in the activities of the Society which is the major national organisation solely concerned with this aspect of environmental health work.

W.B. Twyford
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bradford Metropolitan Borough Council

British Steel Corporation Sheffield Division

British Steel Corporation Scunthorpe Division

Central Electricity Generating Board
Doncaster, Metropolitan Borough Council
Kingston Upon Hull, City of
Kirklees, Metropolitan Borough Council
Leeds, City of
National Coal Board
North Eastern Gas Board
Sheffield, City of
South Yorkshire County Council
Wakefield Metropolitan Borough Council
West Yorkshire County Council
Yorkshire Electricity Board

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Calderdale Metropolitan Borough Council
Cleethorpes District Council
Grimsby Borough Council
Harrogate Borough Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe, Borough Council
Selby District Council
York, City of

CORPORATE MEMBERS

British Acheson Electrodes Ltd.
John Thurley Ltd.
Universal Machinery & Services Ltd.
Yorkshire & Humberside Pollution Advisory Council

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Bell, T.R.H.
Etherington, H.
Fitzpatrick, Miss C.
Fleming, I.
Gittins, M.J.
Hackney, E.S.
Hutton, Dr.K.
Leadbeater, Dr.B.
McLaughlin, D.F.
Miller, Dr.J.E.
Perry, A.W.
Reynolds, F.
Saword, A.C.
Scott, J.A.
Sewell, Dr.P.
Store, N.J.
Taylor, G.
Tomlinson, E.S.
Wakefield, D.J.
Winfield, E.J.
Wraith, M.D.
Wright, R.A.

Division 6
WEST MIDLANDS
Chairman: Cllr. G.T. Randall
Hon. Secretary: C.C. Brockfield

Immediately following the formal business at last year's Annual General Meeting, Dr. R.G. Temple, Senior Tutor, Department of Chemical Engineering, University of Aston, gave an illustrated talk entitled "World Energy Resources". Dr. Temple outlined the current energy situation and then went into some detail on the practical alternatives to conventional fossil fuels. At the time of this meeting the troubles in Iran had not materialised and whilst most of us were well aware of the finite nature of the world's fossil fuel resources, we could not have visualised that some twelve months hence the situation would have deteriorated to the extent which exists today.

In December and January two parties visited the Shell Petrochemical Complex at Stanlow, South Wirral. This is Shell's largest refinery in the United Kingdom. On each occasion members were met by Mr. J. Healey, Public Affairs Officer, who gave an illustrated talk on the refinery processes and following lunch, each party was taken on a guided tour of the extensive complex.

The main processing units at the refinery included three crude oil distillation units producing kerosene, diesel and fuel oils and feedstocks for secondary processing; a feed preparation unit using crude distillation residues to produce feedstocks for the catalytic cracker unit and bitumen plants; catalytic cracking and gas separation units producing propane, butane and chemical feedstock gases and a high octane motor gasoline component; two platformers which reform naphtha feedstocks into a high octane motor gasoline component and supplies feedstock for the aromatics plant; an aromatics plant producing benzene; bitumen plants; a high viscosity index lubrication oil plant and a wax plant extracting paraffin. It is perhaps appropriate to mention some of the pollution control measures which are employed at the refinery:-

> The sulphur compounds present in the petroleum fuels are minimised by hydrodesulphurisation, which involves catalytically treating the products with hydrogen under pressure. Hydrogen sulphide is removed and converted to sulphur.
>
> The hydrogen sulphide in the fuel gases is removed by an absorption process, then converted to sulphur. The sulphur which is removed is pure enough to be used in the preparation of medical products.
>
> The malodorous residual gases from the blowing of bitumen, before being discharged to atmosphere, are burnt in an incinerator thus destroying the malodorous compounds, the heat produced being used to raise steam.

The first of the meetings was attended by Mr. R.K. Francis, Borough Environmental Health Officer, Borough Council of Ellesmere Port and Neston in whose district the refinery is situated and it was pleasing to note the close level of co-operation which exists between the Company, the Local Authority and local residents.

During the year all Local Authorities in the Division were circularised concerning problems arising over the administration of the Clean Air Acts in Crown Premises. Eleven replies were received, and the majority of cases where problems had arisen involved hospital premises. The replies were forwarded to Headquarters for consideration by the Parliamentary and Local Government Committee, who will decide whether or not to recommend any change in the legislation.

All Local Authorities in the Division were also circularised following receipt of a memorandum from the Central Unit on Environmental Pollution of the Department of the Environment on the redevelopment of Contaminated Land. Replies were received from Coventry, Sandwell and Walsall and these were forwarded to the Department of the Environment and in the case of my own Authority, Sandwell, a representative of the Central Unit on Environmental Pollution will be visiting the district to discuss the points raised in our reply.

The twenty-ninth Annual General Meeting of the Division was held on 13th June 1979 at the Berkeley Nuclear Power Station, Berkeley. Gloucestershire when, despite the petrol supply difficulties, 36 members attended what proved to be a most informative visit.

Following the formal business in the morning, the members were addressed by Mr. J. Grimshaw, Personnel Officer and following lunch by Mr. A.C. Horne, Station Manager and Mr. B. Wilcox, Health Physicist. Members were then taken on a guided tour of the station. The station has a "Magnox" reactor and was the Central Electricity Generating Board's first nuclear power station in this country and was opened in 1962.

C.C. Brookfield
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Coventry, City of
Dudley Metropolitan Borough Council
Midlands Electricity Board
National Coal Board
Sandwell Metropolitan Borough Council
Silca and Moulding Sands Association
Stoke-on-Trent, City of
Walsall Borough Council
West Midlands Gas Board
Wolverhampton Metropolitan Borough Council

LOCAL AUTHORITY MEMBERS

Hereford City of
Newcastle Under Lyme Borough Council
North Warwickshire District Council
Nuneaton Borough Council
Rugby Borough Council
South Staffordshire District Council
Stafford Borough Council
Tamworth Borough Council
Warwick District Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

The University of Aston in Birmingham
Guest Keen & Nettlefords Ltd.
Lodge-Cottrell Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Busby, H.G.T.
Cockerham, Dr.R.G.
Cox, Mrs.J.
Fisher, M.J.
Fisher, P.S.
Gillett, J.A.
Grimmett, P.H.G.
Hawksley, P.G.W.
James, E.N.
James, R.F.
Longley, J.C.
Lowbridge, H.E.T.
McNulty, M.F.J.
Owen, A.G.
Reynolds, K.
Roberts, R.E.J.
Sulway, Mrs.K.J.
Taylor, C.B.

Division 7
EAST MIDLANDS DIVISION
Division 8
EASTERN DIVISION
Chairman: J.B. Brackenbury
Hon. Secretary: E.F. Raven

I am pleased to report that there continues to be no lack of enthusiasm in the Division and that attendance at meetings normally exceeds sixty.

In the Autumn of 1978, we visited Nottingham at the kind invitation of the City Council. To older members of the Division, Nottingham has a particular significance as the scene of its inauguration in 1949. In the morning we had a paper with a difference by Dr. M. Unsworth of the Nottingham University School of Agriculture, discussing the effects of sulphur dioxide in the air. In the afternoon, a party visited the Meridian Knitwear Factory while others saw films from the NCB Film Library.

Our Spring meeting was held at Bevercotes Colliery on 29th March 1979, when the snows of a fortnight earlier had scarcely gone, but there was awaiting us the usual warmth and hospitality of the NCB. Members were able to see the surface workings at the Colliery which is all-electrically operated, and later, after an excellent buffet lunch, toured the mining museum at Lound Hall - a trip back into time and a reminder of the stern working environment of earlier generations of miners.

The Annual General Meeting was held at Buston on 21st June 1979 by kind invitation of the High Peak Borough Council, whose Health Committee Chairman, Councillor Mrs E.M. Tomlinson JP, had chaired the Division during 1978/79. At that Meeting Mr. J.B. Brackenbury

FEHA, City Environmental Health Officer of Chesterfield was made Chairman for 1979/80 and Councillor J.E. Hall of Peterborough the Vice Chairman. In the morning a paper on Asbestos was presented by Dr. Allardice of the Turner Newall Group, and members were then entertained to lunch by kind invitation of the High Peak Borough Council.

The afternoon was devoted to a visit to the works of Ferodo Ltd. both to see their products and also to become acquainted with the precautions taken at the works by people using asbestos.

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Chemicals Division)
British Steel Corporation (Tubes Division)
Central Electricity Generating Board Midlands Region
Coalite & Chemical Products Ltd.
East Midlands Electricity Board
East Midlands Gas Board
Leicester, City of
National Carbonising Co.Ltd.
National Coal Board
Nottingham,City of
Rolls-Royce Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston District Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash District Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak District Council
Hinkckley & Bosworth District Council
Huntingdon District Council
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough District Council
West Derbyshire District Council

CORPORATE MEMBERS

Low Temperature Coal Distillers Association of Great Britain Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Brown, J.A.
Catlow, J.
Crowther, Dr.J.S.
Davies, D.
Drabble, G.
Duncalf, R.C.
Hall, J.E.

Harper, A.R.W.
Haynes, F.
Hunt,Dr.J.C.R.
Inglefield, Mrs.E.J.
Jones, B.T.
Lusty, V.
Mulholland, M.J.
Richards, Dr.J.M.
Riley, R.V.
Robinson, A.Lister
Shanks, J.I.
Stewart, Mrs.E.E.
Turner, T.Henry
Vulliamy, N.M.E.
Waring, F.L.
Weldon, M

MEMBERSHIP LIST

SUSTAINING MEMBERS

Eastern Electricity Board

LOCAL AUTHORITY MEMBERS

Basildon District Council
Braintree District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich, City of
Southend-on-Sea Borough Council
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Co.Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS
STUDENT MEMBERS.

Adams, A.R.
Dobson, P.F.
Goodfellow, J.
Parsons, E.
Stephenson, Dr.R.J.
Wade, J.T.

Division 9
LONDON & SOUTH EAST DIVISION
Division 10
CENTRAL SOUTHERN DIVISION
Chairman: R.F. Shapter
Hon. Secretary: A.J. Rees

Due to the general lack of support by members to meetings and visits, it was decided not to make any such arrangements during this period.

However, the South Western Division generously invited the London, South East & Central Southern Divisions to a meeting on the subject of noise at Southampton University on 31st May.

Just under half the participants were from this Division, and at the conclusion of a valuable afternoon, wishes were expressed for more joint meetings in the future.

The Annual General Meeting was held on 28th June 1979 at B.P. House at which Mr. R.F. Shapter was re-elected Chairman and the other officers also remained unchanged. On completion of the business, a talk was given by Mr. J.R. Cossey of the Alkali & Clean Air Inspectorate, on the recent changes in the work of the inspectorate and current instrumentations. This was well received by the members and a lively discussion resulted.

A.J. Rees
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Barnet, London Borough of
Brent, London Borough of
British Gas Corporation
British Petroleum Co.Ltd.
B.P.Oil Ltd.
British Steel Corporation
Bromley, London Borough of
Central Electricity Generating Board
Coal Merchants Federation of Great Britian
Courtaulds Ltd.
Ealing, London Borough of
Eastern Gas Board
Electricity Council
Enfield, London Borough of
Environmental Protection Equipment Manufacturers Association
Esso Petroleum Co.Ltd.
Greater London Council
Imperial Chemical Industries Ltd.
Industrial Gas Cleaning Association
Institute of Petroleum
Lambeth, London Borough of
London, Corporation of
London Electricity Board
Mobil Oil Co.Ltd.
National Coal Board
North Thames Gas Board
Shell International Petroleum Co.Ltd.
Shell U.K.Oil Ltd.
South Eastern Gas Board
Texaco Ltd.
Wandsworth, London Borough of

LOCAL AUTHORITY MEMBERS

Adur District Council
Ashford Borough Council
Bexley, London Borough of
Brighton Borough Council
Broxbourne Borough Council
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford District Council
Dover District Council
Eastbourne Borough Council
Elmbridge District Council
Epsom & Ewell Borough Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hillingdon, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, London Borough of
Kingston Upon Thames, London Borough of
Lewes District Council
Lewisham, London Borough of
Medway Borough Council
Merton London Borough of
Mid Sussex Borough Council
Redbridge, London Borough of
Reigate & Banstead Borough Council
Richmond Upon Thames, London Borough of

Southwark, London Borough of
Surrey Heath District Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Watford Borough Council
Waverley Borough Council
Welwyn Hatfield Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Advance Linen Services Ltd.
Asbestos Information Centre
Atkins, W.S.Group Ltd.
Blue Circle Industries Ltd.
British Independent Steel Producers Association
Brookway Engineers Ltd.
Buckle, G.H. & Partners
Caltex (U.K.) Ltd.
Cleerburn Ltd.
Confederation of British Road Passenger Transport
Electrical Association for Women
Environmental Health Officers Association
Flakt Ltd.
Flaregas Engineering Ltd.
A.Guinness, Son & Co. (Park Royal) Ltd.
Institution of Gas Engineers, The
London Transport
McCrone Research Institute Ltd.
North East Surrey College of Technology
Nutfield Marsh Protection Association
Royal Society of Health
Seltec, South East London College
Solid Smokeless Fuels Federation
South East Electricity Board
Sumner, G & Partners
The British Sulpher Corporation Ltd.
Tottenham College of Technology
Women's Solid Fuel Council
Women's Gas Federation and Young Homemakers

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Ades T.R.
Barnes, K.
Beaumont, M.
Bevington, C.F.P.
Bond, Prof. G G.
Boult Sir Adrian C.
Bradshaw, N.F.
Brown, H.
Brown, T.J.
Buist, Commander C.
Butler, J.W.
Caristan, R.M.
Carter, Dr.J.S.
Chandler, T.J.
Chatfield, A.J.
Clancey, J.
Coker, W.G.
Colville, Lt.Com.R.F.
Comer, P.J.
Courtier, G.B.
Craxford, Dr.S.R.
Crumpler, K.A.R.
Day, M.R.
Driver, Capt.A.C.
Duncalf, R.
East, R.G.
Eaton, Dr.F.J.
Ellis, P.T.A.
Elsworth, Mrs.F.S.
Fisher, A.H.
Fisher, J.G.
Forrester, Dr.C.
Gandy, Miss R.L.
Garland, G.E.
Garland, P.
George, Miss M.
Gillett, I.
Gimpel, Mrs.C.
Goldsmith, A.
Grant, P.M.
Greenhead, S.
Hamilton, Dr.P.M.
Held, P.E.J.

Henson, C.G.
Hunt, J.R.J.
How, M.D.
Iddison, T.H.
Jackman, F.A.
James, B.W.
Jellis, F.
Langwell, W.H.
Lax, Mrs.G.
Lees, B.
Lloyd, Miss P.
Lord, D.G.
Marsdin, R.
Maynard, M.J.G.
Menuhin Yehudi
Miles, S.E.
Monkhouse, Dr.A.C.
Moores, A.R.
Mowle, C.R.
O'Gilvie, A.G.
Osmand, A.
Parker, Dr.A.
Perkins, P.R.
Putnam, R.V.
Rice, A.P.
Rosling, Miss E.M.
Scorer, Professor R.S.
Sehter, L.
Shillito, D.E.
Specher, R.
Stoddard, A.
Stubbs, G.C.
Sullivan, J.S.
Thorns, J.E.
Todd, G.F.
Tomi, D.T.
Train, Dr.D.
Turner, Dr. W.C.
Vine, Mr. & Mrs G.M.
Watson, Professor H.E.
Weldon, S.
Wermann, J.C.
Wigan, H.N.
Wooldridge, K.G.W.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Southern Electricity Board
Southern Gas Board

LOCAL AUTHORITY MEMBERS

Aylesbury Vale District Council
Bracknell District Council
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Slough Borough Council
Southampton, City of
South Bedordshire District Council
South Oxfordshire District Council
Vale of Whitehorse District Council
Wycombe Borough Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
Highbury College of Technology
Metal Box Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Armstrong, F.W.
Bartlam, J.N.
Billington, N.J.
Bradbury-Williams, J.C.
Bridgen, R.F.
Bryant, Miss P.M.
Cowling, D.W.
Davies, P.M.
Dugdale, Mrs.B.

Hinde, Dr.P.T.
Jones, Dr.L.H.P.
Kirk, J.C.
Parry, M.
Porter, D.
Scotson, D.A.
Shapter, R.F.
Slater, Dr.D.H.
Stallard,J.N.
Tagg, J.R.
Verdin, A.

Division 11
SOUTH WEST DIVISION
Chairman: D.J. Barnett
Hon. Secretary: H.R. Nowell

The first of three meetings during the year was held at Hinkley Point Power Station, Somerset and was attended by 21 members. Divisional council and Division regular business meetings preceeded a tour of the "A" Station on which we were accompanied by Mr. P. Carter, Health Physicist.

The next meeting at the Institute of Sound and Vibration Research, Southampton University set a welcome precedent as the first joint meeting of the South West, London and South East, and Central Southern Divisions. The subject for discussion was "Environmental" Noise Control" and the meeting was addressed by Peter Sutton (Esso Petroleum Co. Ltd.) Geoff Charnley (Southampton City Council) and Ken Ratcliffe (Wolfson Unit). The calibre of the speakers and member participation in the ensuing lively discussion period made this a highly successful meeting and it is hoped the principle of joint meetings might be repeated in the future by these and other Divisions.

Twenty-three members attended the A.G.M. in Melksham, Wiltshire on 19th June. The meeting marked the end of an era in the Division with the retirement of Alderman C. Hebblethwaite C.B.E. from the post of Chairman which he had held for the past twelve years. Mr. P. Draper presented Alderman Hebblethwaite with Life Membership of the Society as a token of the Division's appreciation of his services. His successor will be Mr. D.J. Barnett who was elected by a postal ballot. Following the business meetings, members were addressed by Mr. J. Twentyman, Services Engineer of Avon Rubber Co. Ltd. and then given a conducted tour of firstly the incineration plant which claims to be the only plant in the U.K. able to smokelessly incinerate tyres, and secondly the tyre manufacturing plant.

One notable new member was Avon County Council and despite the further cuts in public expenditure it is hoped to attract additional members during the ensuing year.

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bristol,City of
Central Electricity Generating
Board (South West Region)
National Coal Board
Plymouth, City of
South Western Gas Board

LOCAL AUTHORITY MEMBERS

Bath, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Poole Borough Council
Stroud District Council
Taunton Deane District Council
Teign Bridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.
Englehard Sales Ltd.
South West Electricity Board
Wilson, J.D. & Partners

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Barnett, D.J.
Baxter, T.
Capper, A.J.
Colehan, J.E.
Hannabuss, G.
Hebblethwaite, C.
Hockin, Dr.L.E.
Lane, Dr.J.J.
Norman, L.
Parker Dr.R.A.
Parry, J.R.
Price, B.
Redston, R.V.
Upton, B.C.
Watkins, E.R.

Division 12

SOUTH & MID WALES DIVISION

Chairman: County Cllr. C.R. Lewis
Hon. Secretary: T. Jones

The Annual General Meeting of the South Wales Division was held on the 27th June 1979, when the election of Officers and Representatives was undertaken followed by a visit to the British Steel Works, Panteg, Pontypool. After the election of Officers various points were raised by Members particularly concerned with the revitilisation of the Division.

Following the discussion, an instructive talk was given by Mr. D. Wigley, Plant Engineer at the BSC Pontypool Works, and this was followed by lunch and a visit to the British Steel Corporation Works.

T. Jones
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation
(Welsh Division)
Cardiff, City of
Mid Glamorgan County Council
National Coal Board
Wales Gas Board
West Glamorgan County Council

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cynon Valley District Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely District Council

CORPORATE MEMBERS

South Glamorgan Institute of
Higher Education
South Wales Electricity Board
Swansea Port Health Authority

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS

Dearden, J.
Griffiths, D.A.
Harrop-Griffiths, H.
Heard, M.J.
Perriman, R.J.
Steer, J.
Taylor, B.C.
Thayer, J.M.

SMOKE CONTROL AREAS

Programmes and Progress

The following lists contain the names of the new local authority areas as of April 1st 1974. Due to the local reorganisation in certain parts of the country, and the recent financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1979 and some authorities' figures will have changed since that date. Figures underlined indicate completed programmes. The new British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

Note: susp. = (programme) suspended; n/k = not known; * = 1978 figures; ur = under review; c. = about; xld = cancelled.

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)	
NORTHERN					
Allerdale DC (Cumbria)	1990 c.	10,000 c.	1,208	2,649	
Blyth Valley DC (Northumberland)	1989	17,649	2,012	6,657	
Carlisle City (Cumbria)	-	-	898	2,701	
Castle Morpeth(B)(Northumberland)	1982	2,173	819	1,227	
Darlington(B) (Co.Durham)	1994	49,375	4,674	21,159	
Durham City (Co.Durham)	-	44,000	-	-	
Easington DC (Co.Durham)	n/k	21,000 c.	1,408	5,685	
Gateshead(MB) (Tyne&Wear)	1985	35,372	10,735	44,519	
Hartlepool(B) (Cleveland)	1981	8,039 c.	7,129	28,538	
Langbaurgh(B) (Cleveland)	n/k	-	9,573	24,207	
Middlesbrough(B) (Cleveland)	1979	12,226	11,633	51,810	
Newcastle upon Tyne(M)(Tyne&Wear)	1978	34,500	34,500	128,980	
North Tyneside(MB) (Tyne&Wear)	1982	20,700	10,810	46,825	
Sedgefield DC (Co.Durham)	n/k	-	1,210 c.	5,909 c.	
South Tyneside(MB) (Tyne&Wear)	n/k	16,285	12,074	48,570	
Stockton-on-Tees(B) (Cleveland)	1992	48,062	11,091	35,620	
Sunderland(MB) (Tyne&Wear)	-	-	6,175	22,120	
NORTH WESTERN					
Blackburn DC (Lancs)	1986/7	13,000	9,884	34,518	
Bolton(MB) (Gtr.Manchester)	1990/1	34,000	15,910	64,133	
Burnley(B) (Lancs)	1981/2	n/k	17,000 c.	42,000 c.	
Bury(MB) (Gtr.Manchester)	n/k	24,506	19,560	49,825	
Chorley(B) (Lancs)	n/k	16,000	274	1,700	
Crewe & Nantwich(B)(Cheshire)	1974	1,957	1,957	8,731	
Ellesmere Port&Neston(B) Cheshire	-	-	3,662	14,957	*
Halton BC (Cheshire)	1979	13,177	12,701	45,112	
Hyndburn(B) (Lancs)	1980	18,050	13,247	29,304	
Knowsley(M) (Merseyside)	susp	-	6,359	51,295	
Lancaster City (Lancs)	-	-	4,087	7,926	*
Liverpool(M) (Merseyside)	1986	27,819	19,429	112,126	
Macclesfield(B) (Cheshire)	susp	130,690	305	2,653	
Manchester City(M)(Gtr.Manchester)	1982	28,720	25,241	151,280	
Oldham(M) (Gtr.Manchester)	-	34,871	14,512	70,906	*
Pendle DC (Lancs)	1981	17,500 c.	9,885	29,026	
Preston(B) (Lancs)	1982	37,000 c.	35,185	32,309	
Ribble Valley(B) (Lancs)	n/k	143,119	432	356	
Rochdale(M) (Gtr.Manchester)	1982/3	39,306	19,753	58,876	
Rossendale(B) (Lancs)	1996	34,170	8,565	6,183	
St. Helens(MB) (Merseyside)	1984	32,201	16,337	47,492	
Salford City(M) (Gtr.Manchester)	1977	23,942	23,942	90,279	
Sefton(M) (Merseyside)	u.r.	36,388	2,587	13,463	
South Ribble(B) (Lancs)	1990	27,454	2,047	3,735	

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)	
Stockport(MB) (Gtr.Manchester)	1981	31,147	22,119	91,597	
Tameside(MB) (Gtr.Manchester)	1981	25,519	17,994	78,644	
Trafford(MB) (Gtr.Manchester)	1980	26,129	24,907	87,350	
Vale Royal DC (Cheshire)	No figures received from LA				*
Warrington(B) (Cheshire)	1980	43,712	31,834	56,124	
West Lancashire DC (Lancs)	-	-	7,170	14,239	
Wigan(MB) (Gtr.Manchester)	1985	52,918	19,995	51,249	
Wirral(M) (Merseyside)	1987	28,000	15,819	80,005	
YORKSHIRE & HUMBERSIDE					
Barnsley(MB) (S. Yorks)	1991	81,243	10,968	21,178	
Bradford City(M)(W. Yorks)	1985	91,444	50,838	180,106	
Calderdale(MB) (W.Yorks)	1980	89,390	42,333	77,675	
Craven **DC** (N.Yorks)	susp.	19,529	5,634	7,531	
Derwentside DC (Co. Durham)	n/k	n/k	834	3,978	
Glanford(B) (Humberside)	-	143,471	15,263	489	
Kingston-upon-Hull City (Hu.side)	n/k	17,599	8,516	51,989	
Kirklees(MB) (W.York)	n/k	-	30,830	83,364	
Leeds City(M) (W.Yorks)	1985	134,916	71,253	205,230	
Rotherham (M) (S.Yorks)	n/k	69,881	10,552	45,901	
Rydedale (DC) (N.Yorks)	1982	261	261	2,313	
Scunthorpe (B) (Humberside)	1980	8,337	4,095	21,617	*
Sheffield City (M) (S. Yorks)	1981	59,567	54,573	215,736	
Wakefield City(M) (W. Yorks)	n/k	82,330	22,658	48,485	
York City (N. Yorks)	1985	7,306	3,473	16,037	
WEST MIDLANDS					
Birmingham City (W.Midlands)	1983	65,309	51,651	284,020	
Coventry City(M) (W.Midlands)	1984	23,845	7,049	31,218	
Dudley(MB) (W.Midlands)	-	24,202	18,207	73,666	
East Staffordshire DC(Staffs)	1985/6	4,222	2,325	7,994	
Lichfield DC (Staffs)	1982	3,579	1,775	1,555	
Newcastle under Lyme (Staffs)	-	52,159	4,450	17,100	
North Shropshire DC (Salop)	-	1,310	512	1,503	*
North Warwickshire(B)(Warwicks)	1984	14,883	4,172	3,105	
Nuneaton(B) (Warwicks)	1982	19,587	8,299	15,480	
Rugby(B) (Warwicks)	1979	7,085	5,839	20,435	
Sandwell (MB) (W.Midlands)	-	21,150	6,536	-	
Shrewsbury & Atcham (B) (Salop)	n/k	148,928	999	3,787	
Solihull(MB) (W.Midlands)	n/k	44,495	6,167	34,856	
Stafford BC (Staffs)	-	147,200	-	-	
Staffordshire Moorlands DC(Staffs)	-	-	2,220	5,370	*
South Staffordshire DC (Staffs)	-	-	5,186	1,258	
Stoke on Trent City (Staffs)	1986	22,947	12,638	45,150	

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Tamworth(B) (Staffs)	susp.	7,647	4,089	12,845
Walsall(MB) (W. Midlands)	-	26,266	11,895	45,567
Warwick DC (Warwicks)	1984	69,762	3,565	19,653
Wolverhampton(MB)(W.Midlands)	1990	17,031	8,052	49,099
Wrekin DC (Salop)	1985	19,311	2,791	5,025
Wyre Forest DC(Hereford&Worcester)	1989	4,964	301	250

EAST MIDLANDS

Amber Valley DC (Derbys)	1990	19,300	3,971	8,519
Ashfield DC (Notts)	n/k	27,520	11,062	14,378
Bassetlaw DC (Notts)	1987 +	20,000	4,775	6,402
Blaby DC (Leics)	1990	20,171	4,652	10,457
Bolsover DC (Derbys)	-	39,623	730	2,980
Broxtowe DC (Notts)	1985	14,667	7,855	21,676
Chesterfield(B) (Derbys)	1983	16,259	4,719	20,193
Corby DC (N'Hants)	1988c.	19,845	1,136	9,002
Derby(B) (Derbys)	1984	19,282	14,464	54,486
Erewash(B) (Derbys)	1997	7,690	2,233	8,825
Gedling(B) (Notts)	-	27,761	3,609	19,050
High Peak DC (Derbys)	-	133,629	2,301	9,342 *
Leicester City (Leics)	1975	18,144	18,144	91,218
Lincoln City (Lincs)	1987	8,828	5,186	15,400
Mansfield DC (Notts)	1990	18,997	7,381	19,131
Northampton(B) (N'Hants)	susp.	19,928	8,179	17,898
North East Derbyshire (Derbys)	n/k	68,433	19,263	22,115
Nottingham City (Notts)	1986/7	18,364	10,794	40,448
Oadby & Wigston(B) (Leics)	xld	-	145	893
Rushcliffe(B) (Notts)	1983	3,045	1,873	5,830
South Derbyshire DC(Derbys)	n/k	n/k	1,657	2,999
South Kesteven DC (Lincs)	-	n/k	2,633	7,910

EAST ANGLIA

Cambridge City (Cambs)	No figures from LA			*
Norwich City (Norfolk)	susp.	9,655	1,535	3,090
Peterborough City (Cambs)	-	82,424	4,966	16,204
West Norfolk DC (Norfolk)	-	-	841	4,377

SOUTH WEST

Bath City (Avon)	1990	7,092	-	-
Bristol City (Avon)	1985	27,073	13,724	57,494
Cheltenham DC (Gloucs)	n/k	-	896	2,915
Exeter City (Devon)	susp.	11,037	6,581	16,771
Gloucester City (Gloucs)	-	8,240	-	- *

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
	SOUTH EAST			
Aylesbury Vale DC (Bucks)	1985	3,594	912	5,047
Basildon DC (Essex)	n/k	n/k	4,528	21,682
Bedford DC (Beds)	No figures received from LA			*
Bracknell DC (Berks)	1985	8,636	3,286	9,838
Brentwood DC (Essex)	-	-	227	2,856
Brighton(B) (E. Sussex)	1991	14,613	866	7,788
Broxbourne(B) (Herts)	1988	12,903	1,951	8,828
Canterbury City (Kent)	-	77,202	255	1,963
Crawley(B) (W.Sussex)	n/k	9,013	5,622	32,523
Dacorum DC (Herts)	n/k	5,000 c.	3,730	14,649
Dartford DC (Kent)	1981	17,267	12,468	26,543
Epping Forest DC (Essex)	-	85,146	600	2,463 *
Gillingham(B) (Kent)	1979	11,123	9,928	34,689
Gravesham(B) (Kent)	1983	4,500 c.	3,428	16,632
Guildford(B) (Surrey)	1985	6,000 c.	2,195	8,518
Harlow DC (Essex)	1965	6,320	6,320	27,977
Hertsmere DC (Herts)	-	21,031	2,120	7,913
Luton(B) (Beds)	1979	10,657	8,689	42,486
Medway(B) (Kent)	-	-	6,383	19,974 *
Milton Keynes(B) (Bucks)	n/k	n/k	3,752	12,793
North Bedfordshire(B) (Beds)	1989/90	7,314	2,985	13,098
North Hertfordshire DC (Herts)	n/k	-	1,341	3,912
Oxford City (Oxfordshire)	1990	8,785	3,390	15,011
Portsmouth City (Hants)	1989	9,249	732	7,159 *
Reading (B) (Berks)	1985	9,106	5,959	23,340
Sevenoaks DC (Kent)	n/k	2,315	1,341	3,684
Slough(B) (Berks)	1989	6,813	4,486	22,500
Southampton City (Hants)	1980	4,300	3,521	24,989
Spelthorne(B) (Surrey)	No figures received from LA			*
Stevenage(B) (Herts)	1982	6,256	3,508	9,696
Thurrock(B) (Essex)	n/k	n/k	8,450	20,924
Watford(B) (Herts)	1979	5,275	4,419	23,097
Windsor&Maidenhead Royal B(Berks)	susp.	831	831	2,585 *
Wokingham DC (Berks)	-	44,232	-	- *
Wycombe DC (Berks)	susp.	7,091	3,818	16,525
	LONDON BOROUGHS			
Corporation of London	1955	678	678	17,147
Barking	1981	8,877	2,748	49,549
Barnet	1982	22,123	15,282	107,468
Bexley	1976	15,896	15,896	79,240
Brent	1975	10,934	10,934	95,624
Bromley	1979	29,600	29,584	124,202

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Camden	1968	5,365	5,365	88,214
Croydon	susp.	21,395	13,164	103,614
Ealing	1972	13,711	13,711	112,876
Enfield	1979	20,061	20,061	88,947
Greenwich	1972	11,724	11,724	75,673
Hackney	1967	4,814	4,814	90,507
Hammersmith	1967	3,988	3,988	72,550
Haringey	1968	7,490	7,490	94,281
Harrow	1975	12,553	12,553	80,957
Havering	1979	29,650	27,566	72,296
Hillingdon	1981	27,258	20,463	84,672
Hounslow	1972	14,635	14,635	90,271
Islington	1969	9,090	9,090	82,000
Kensington&Chelsea (Royal)	1972	2,950	2,950	25,288
Kingston upon Thames (Royal)	1980	9,281	6,782	52,543
Lambeth	comp.	6,738	6,738	102,400
Lewisham	1979	8,581	8,185	77,624
Merton	1977	9,381	9,381	69,283
Newham	1979	8,986	6,023	75,879
Redbridge	1971	13,983	13,983	67,658
Richmond upon Thames	1972	5,209	5,209	82,623
Southwark	n/k	6,981	5,831	86,054
Sutton	1977	10,732	10,732	n/k
Tower Hamlets	1968	4,876	4,876	42,440
Waltham Forest	completed-no figures received from LA			
Wandsworth	1978	8,860	8,860	108,693
Westminster City	1970	5,334	5,334	13,021

NORTHERN IRELAND

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)	
Antrim (Co. Antrim)	1976	764	764	6,338	
Ards(B) (Co. Down)	-	-	105	823	
Armagh DC (Co. Armagh)	-	-	4	96	*
Ballymena(B) (Co. Antrim)	comp.	325	325	890	
Belfast City (Co.Antrim&Co.Down)	1989	26,218	3,489	25,689	
Castlereagh DC (Co. Down)	1981	5,911	5,428	17,756	
Craigavon(B) (Co.Armagh)	1990	-	4,730	8,850	
Down (Co. Down)	n/k	-	482	910	
Larne(B) (Co. Antrim)	susp	-	11	290	*
Londonderry City (Londonderry)	-	-	74	546	*
Newtownabbey (Co.Antrim)	-	-	1,570	4,933	
North Down(B)(Co. Down)	n/k	-	176	765	
Strabane (Co. Tyrone)	1974	54	54	750	

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
	SCOTLAND			
Bearsden & Milngavie(Strathclyde)	-	5,000	5,000	13,000
Clackmannan (Central)	n/k	2,095	375	2,200
Clydebank (Strathclyde)	1979	9,230	4,004	20,282
Cunninghame DC (Irvine)	n/k	-	92	588
Dumbarton (Strathclyde)	1985	11,787	3,206	8,723 *
Dundee City (Tayside)	1981	12,654	11,507	59,466
Dunfermline (Fife)	1990	76,800	930	5,231
East Kilbride (Strathclyde)	n/k	10,653	10,255	24,000 c
Edinburgh City (Lothian)	1985	64,000	22,135	51,149
Ettrick & Lauderdale (Galashiels area only)	-	1,766	1,766	4,919
Falkirk (Central)	n/k	n/k	12,812	32,753
Glasgow City (Strathclyde)	1984	49,375	32,503	235,814
Hamilton (Strathclyde)	n/k	42,883	4,166	15,737
Inverclyde (Strathclyde)	-	-	1,461	7,423
Kilmarnock & Loudoun(Strathclyde)	-	-	100	577
Kirkaldy (Fife)	-	-	5,839	7,083
Kyle & Carrick	-	-	98	410
Monklands (Strathclyde)	1987	10,128	5,138	20,482
Motherwell (Strathclyde)	1984	n/k	773	3,364
Nithsdale (Dumfries & Galloway)	1989	3,421	1,186	2,939
Renfrew (Strathclyde)	1988	n/k	14,009	57,319
Roxburgh (Borders)	1985	1,240	426	1,900
Stirling (Central)	n/k	-	378	2,050
Strathkelvin (Strathclyde)	-	41,280	4,014	n/k
West Lothain (Lothian)	-	103,401	6,521	10,330 *
	WALES			
Alyn & Deeside (W) (Clwyd)	-	-	50	448
Delyn (B) (Clwyd)	-	370	140	n/k *
Newport(B) (W) (Gwent)	n/k	n/k	67	1,178
Wrexham Maelor(B) (W) (Clwyd)	n/k	-	2,166	10,390

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11. Effects of Atmospheric Pollutants on Forests and Natural Plant Assemblages - Professor F.T.Last
12. Radioactivity and the Nuclear Fuel Cycle - Dr.R.H.Clarke
13. The Control of Airborne Radioactive Emissions from Nuclear Power Stations in the U.K. - J.Beighton
14. Exposure of the Public to Radioactive Discharges from the Nuclear Fuel Cycle - Pamela M.Bryant and Frances E.Taylor

Part II: Reports of Discussions.

Brighton Conference, October 1978.
Part I:

1. The UK Approach to the Control of Air Pollution - A European Appraisal - Dr.E.Weber
2. The European Approach - P.J.Wilde
3. The Task of the Local Authority, Monitoring, Measurement, Collection and Dissemination of Information - L.E.Robson

4. The Role of HM Alkali and Clean Air Inspectorate -S.J.Hart
5. The Tasks of Industry - Monitoring, Measurement,Research - H.I.Fuller
6. The Need for Education - Are we Doing Enough? - D.L.Lewis and Mrs.C.Mares
7. Is Enforcement of Existing Legislation Adequate? - D.G.T.Williams
8. Low Energy Strategies for the UK - G.Leach
9. Energy Conservation in Industry - Dr.N.J.D.Lucas
10. The Economics of Clean Air - J.Lowe
11. Air Pollution- The Cost of Abatement and Control - A.W.F.Maule

Part II: Reports of Discussions.

Scarborough Conference, October 1979
Part I:
1. The Weather - Jack Scott
2. The Accuracy of Forecasting - Dr.F.B.Smith
3. A Visual Presentation of the Effects of Weather on Pollution - Professor R.S.Scorer
4. The Inter-relation between Weather and Emission Heights - Dr.D.J.Moore
5. General Methods of Measurement and Monitoring - Dr.A.W.C.Keddie
6. Advanced Methods of Monitoring and Measurement - Dr.R.Varey and Peter Owens
7. The Effects of Weather on Noise - Propagation and Measurement - Professor J.B.Large
8. The Effect of Weather on Noise Assessment - Peter Sutton
9. The Accuracy, Interpretation and use of Results obtained from Monitoring and Measurement - Dr. J.M.A.Schwar
10. The Effects of Pollution on Climate - Dr.B.J.Hoskins

Part II: Reports of Discussions

Technical Seminar, Manchester, March 1972.
Part I:
1. Industrial Waste - the Problem of Disposal - N. Iliff
2. On site Incineration - K.S. Dunn
3. Centralised Incineration - W.A. Clennel and C.R. Mowle
4. Incineration of Rubber and Plastic Wastes - G. Cheater
5. Incineration of Sewage Sludge - G. Moodie
6. Integrated Environmental Design - H.G. Mitchell
7. The Role of the Heating and Ventilating Engineer in Pollution Control - F.M.H. Taylor
8. Dust Control in Factories - P. Swift
9. Clean Rooms - R.B. Williamson
10. A Practical Approach to the Statutory Control of Emissions - C.R. Cresswell
11. Grit and Dust from Non-Combustive Processes - C.D. Darley
12. High Efficiency Gas Cleaning - K. Darby
13. Some Problems of Dry Processes for Removing SO_2 from Flue Gases - J. Bettelheim and B.H.M. Billinge
14. Electrostatic Precipitators - A.J. Moyes and M. Swift
15. Boiler Furnace Design Considerations for Dual Fuel Firing - H.B. Weston

16. Modern Chimneys - M. Beaumont
17. Progress in Automatic Control - R.P. Braby

Part II: Report of the Discussions

Technical Seminar, Oxford, April 1973.
Part I:
1. Lead in Petrol - is it Necessary? - C.L. Goodacre
2. Acceptable Devices for the Control of Emissions - Expert Panel
3. Why do Diesels Make Smoke - How May it be Abated? - N.M.F. Vulliamy
4. Regulations Regarding Smoke Emission: Are They Adequate? How Can They Be Strengthened? - P. Draper
5. Control of Pollution in Jet Engines - M.R. Williams
6. Gas Turbines for Rail Traction - M.A. Stokes
7. The Future: The Alternative to the Motor Car - or Alternative Fuels - Dr. C.G. Williams

Part II: Report of Discussions

Technical Seminar, Sheffield, March 1974
Part I:
1. A History of the Campaign Against Air Pollution in Sheffield and District - A.F. Maule
2. Atmospheric Pollution Control in the Iron and Steel Industry - J.H. Flux
3. The Development of Fume Cleaning Plant for the Templeborough Electric Melting Shope, B.S.C. - I.C. Cross
4. Environmental Control in the Manufacture of Artificial Graphite - A.N. Howard
5. The Use of Natural Gas in Industry and its Contribution Towards Cleaner Air - Dr. P.B. Simpson
6. Now Solid Fuel Makes a Clean Sweep - J.G.S. Smith
7. The Contribution of the Alkali Act - M.F. Tunnicliffe
8. River Pollution Prevention and its Relationship with Atmospheric Pollution - T.W. Raven
9. Reduction of Combustion Generated Air Pollution - Professor J.M. Beer and Dr. A.B. Hedley

Part II: Report of Discussions

Technical Seminar, Newcastle upon Tyne, March 1975
Part I: The Second Working Party on Grit and Dust
1. General Considerations - Dr. G.G. Thurlow
2. The Work of the Incineration Panel - G. Taylor
3. The Work of the Cold Blast Cupola Panel - P.J. Moseley and F.M. Shaw
4. Dryers and Miscellaneous Furnaces - E.B. Briggs

Monitoring
5. Instrumentation for Particulate Measurement - A. Keating
6. The Need for Monitoring - A. Archer
7. Practical Experience on Measurement of Grit and Dust Emissions - W. Short
8. Measurement and Standards for Pollutant Emissions from Stationary Sources - S.C. Wallin and P. Clayton

Control of Grit, Dust and Fume
9. Specific Problems - Dr. E.T.J. Fuge
10. Grit Arrestors - H. Westwood
11. The Electrostatic Precipitator at High Temperature - K. Darby and K.R. Parker
12. Bag Filters for Dust Arrestment - H.A. Edwards
13. Extraction of Solids from the Flue Gas Stream of Oil Fired Boilers - M. Beaumont
14. Afterburning as a Means of Fume Incineration - J. Thurley

Part II: Reports of Discussions

Technical Seminar, "Odours", Birmingham, March 1976
Part I:
1. The Public Attitude - F.G. Sugden
2. The Legal Position - R.G. Goodbody
3. The Second Report of the Department of the Environment Working Part on the Suppression of Odour from Offensive and Selected Other Trades - Dr. H.N.M. Stewart
4. The Effects of Odours on Health - Dr. C. White
5. Factors in the Answer to Some Problems - Dr. B. Leadbeater
6. Odours from the Food and Fish Processing Industries - D.D. Singer and Mrs. R.O. Hunt
7. Farming - C.T. Riley
8. Animal By-Products - K. Sharples
9. The Incineration of Exhaust Fumes from Solvent Based Paint Stoving Ovens - J.I. Morris
10. Adsorption - Dr. I. Young
11. Catalytic Combustion and the Control of Air Pollution - R.A.Searles
12. Absorption - A.T.Canton
13. Research and Development - A.A.North

Part II: Reports of Discussions

Technical Seminar, "Noise", Manchester, March 1977
Part I:
1. Noise Control - The Present and Future Position - F. Reynolds
2. Industrial Noise: A Case for Legislation - M. Ankers
3. Noise Reduction: Has Education a Role to Play? - A.J. Percival
4. Noise Abatement Zones - C.N. Penn
5. Reduction of Vehicle Noise at Source - J.W. Tyler
6. Aircraft Noise as a form of Pollution - R.J. Hill
7. Noise and the Worker - R. Harrison
8. Noise from Construction Sites - D.L. Barry

Part II: Reports of Discussions

Workshop, Bristol, April 1978.
Part I:
1. The Philosophy of Planning - A. Buchanan
2. The Environmental Aspects of Planning - K.Cox
3. Is Planning Legislation Adequate to Safeguard the Environment - Miss A.Lees and Dr.G.D.Parry.

4. The Problems of the Development of an Urban Industrial Area - Avonmouth - D.J.Barnett.
5. Alternative Inner Areas - J.J.C.Amos
6. The Relocation of a Major Industry in an Urban Setting - J.Quick

Part II: Reports of Discussions.

Workshop, Warwick, April 1979

Part I:

1. The Relative Importance of Motor Vehicles as a Source of some of the more Common Atmospheric Pollutants - Dr.A.W.C.Keddie
2. Emissions from Internal Combustion Engines; Pollutants and their Diversity - J.H.Boddy
3. The TRRL Quiet Heavy Vehicle Project - J.W.Tyler
4. Effects of Emissions - General Effects - Professor P.J.Lawther
5. Effects of Emissions - Lead - Dr.D.Barltrop
6. Legislative Control of Motor Vehicle Emissions - M.Ellis
7. The Technology of Controlling Exhaust Emissions (A) Present (B) Future Trends - Dr.J.H.Wearing

Part II: Reports of Discussions

POSTERS

All double crown - 20" wide x 30" deep

1. Prevent Air Pollution - Britains Biggest Headache
2. Lungs, Plants, Animals, Buildings and Your Pocket are being attacked by Polluted Air
3. Couldn't You Do With Some Clean Air?
4. Road Vehicle Pollution

Price: 25p per poster
£15.00 per 100 - can be mixed

LEAFLETS

Sample copies sent on request

1. Garden Bonfires
   £4.00 per 1,000 5,000 or more less 10% discount
2. Prevent Air Pollution
   £7.00 per 1,000 5,000 or more less 10% discount
3. Clean Air Begins at Home
   £9.00 per 1,000 5,000 or more less 10% discount

SMOKE CHARTS

Ringelmann Smoke Chart, complete with instructions
Price: 40p each, £3.50 for 10

Powers Microringelmann
Direct facsimile reduction of the Standard Ringelmann Chart
Price: 60p each, £5.00 for 10

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on varied pollution and environmental aspects. In this edition of the Handbook, we have listed only the title, running time etc. and any hire/purchase details of films mentioned in previous editions of the Handbook. For full details, please refer to the 1978/79 Members' Handbook, or contact the National Society for Clean Air (Information Department), Brighton 26313. Full details of newly listed films are given below. Application for the loan of films should be made to the issuing organisation referred to in the lists.

The films are on free loan unless hire charges or purchase price are quoted. Two or three weeks' advanced notice of hire should be given. The running time of films in minutes is included. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Members' Handbook.

ASBESTOS INFORMATION CENTRE

A number of 16 mm colour sound films are available through the Asbestos Information Centre. Because of changing health and safety standards it is recommended that potential borrowers first discuss their requirements and interests with the A.I.C.

MIRACLE FIBRE - KILLER DUST
A pulsed slide-tape presentation (18 mins.) available from the A.I.C. This programme looks at the nature and uses of asbestos together with information on health and safety. The programme is usually presented by an approved A.I.C. lecturer.

Available from:
ASBESTOS INFORMATION CENTRE
Sackville House,
40 Piccadilly,
London W1V 9PA
tel: 01-439 9231

BBC FILM ENTERPRISE HIRE

THE ENERGY CRUNCH
This series of 3 films (total running time, 50 mins.) attempts to analyse the likely effects of the speed with which man is devouring his energy resources, particularly oil and gas. It shows how we may be lighting our homes and driving our cars in the year 2000:

1. The bottom of the Oil Barrel:
   Ref. No. 600-0604-4
2. The Nuclear Dilemma:
   Ref. No. 600-0605-1
3. The Sunbeam Solution:
   Ref. No. 600-0606-8

Colour 16 mm (hire, each film) (2 days) £11

HORIZON: DUE TO LACK OF INTEREST TOMORROW HAS BEEN CANCELLED
Much publicity has recently been given to statements such as that by Prof. Paul Ehrlich of Stanford

University: 'If you had to ask me what the chances are of civilisation reaching the turn of the century, I would have to say one or two per cent - if we're lucky'. How much foundation is there for this kind of attitude? Are the scientists who predict ecological disaster exaggerating the situation to gain attention?
Ref. No. 600-0055-2
Colour 50 mins 16 mm
(2 days) £12

HORIZON: WHAT A WASTE
The average British family throws away almost £100 a year in packaging and by the 1980's twice as much material will find its way into our dustbins. While we are throwing away our 18 million tons of rubbish a year, we are also importing 90 per cent of our raw material. This film investigates the possibilities of recycling refuse in the U.K. Ref. No. 600-0357-3
Colour 50 mins 16 mm
(2 days) £14

THE NOISE INVASION
Investigates industrial exposure to noise, and noise in the home etc. With the speed at which social attitudes are changing, noise as a constant and unavoidable feature of our daily lives is becoming one of the most important environmental issues.
Ref. No. 600-0064-8.
Colour 50 mins 16 mm
(2 days) £8

A QUESTION OF SURVIVAL: PUBLIC POISON
Film about the victims of industrial contamination - Japan. Lead, cadmium and mercury.
Ref. No. 600-0372-4.
Colour 50 mins 16 mm
(2 days) £10

Available from:
BBC ENTERPRISES FILM HIRE
Woodston House,
Oundle Road,
Peterborough PE2 9PZ
tel: (0733) 52257/8

CEGB FILM LIBRARY

ANYWHERE BUT HERE
Colour 34 mins 16/35 mm 1968

CHANGE FOR SAFETY
Colour 24 mins 16/35 mm 1970

ELECTRICITY & THE ENVIRONMENT
Colour 22 mins 16/35 mm 1971

A NATURAL QUESTION
Shows nature trails and conservation around CEGB's power stations. Presented by naturalist and author, Phil Drabble.
Colour 28 mins 16 mm & video 1978

NUCLEAR GENERATION
Colour 17 mins 16/35 mm 1976

POWER ON DEMAND
Colour 15 mins 16 mm 1975

RESEARCH FOR POWER
Shows how the massive CEGB research effort helps to keep costs down and minimises the environmental effects of power stations.
Colour 28 mins 16 mm 1978

The above films are available on free loan from:
CENTRAL ELECTRICITY GENERATING BOARD FILM LIBRARY
Sudbury House,
15 Newgate Street,
London EC1A 7AU
tel: 01-248 1202

THE CENTRAL FILM LIBRARY

AIR POLLUTION - A MEDICAL INVESTIGATION OF ONE ASPECT
Studies of air pollutants and their effects on people carried

out at the MRC Air Pollution Unit, St. Bartholomew's Hospital Medical College, London. This film is mainly concerned with vehicle exhaust research including air and blood sampling and respiration and performance tests.
UK. 2686 17 mins 1972

ASBESTOS AT WORK
It is explained in simple terms how the 1969 Asbestos Regulations affect work situations and must protect operatives; they cover dust extraction equipment, protective clothing, application and stripping of asbestos insulation, machining, drilling and cutting, waste disposal.
UK. 2377 13 mins 1974

BLACK SPOT TO BEAUTY SPOT
UK. 3091 15 mins Hire 1972

CLEAN & PLEASANT LAND
UK. 3278 31 mins Hire 1976

CLEAR WATER AHEAD
Textile industries are great users and potential polluters of water. The Textile Research Assocations, backed by Government grants, have co-operated in extensive research and development on water conservation and effluent treatment.
UK. 3129 36 mins Hire 1971

DON'T TELL THE LADS
Jack Dixon works on lead processing at a battery factory; because of the health hazard of lead, it is a mandatory condition of employment that he has regular medical checks. During one of these the lead level in his blood is found to be above that permitted - and so is that of an outside contractor. The Works Safety Officer and medical advisers investigate the causes and take remedial action.
UK. 3316 25 mins Hire 1976

IT'S ALL MAN MADE
UK. 2721 26 mins 1974

THE NEW PROSPECTORS
UK. 3290 18 mins Hire 1976

PLASTICS IN FIRE
Although plastics have many advantages they produce new fire hazards, which are examined and assessed by the Fire Research Station. Experiments are made to establish different plastic's characteristics, identification of gases produced when pyrolised and analysis of combustion products.
UK. 2764 6 mins 1975

THE REASON WHY
Swinden Quarry in the Yorkshire Dales National Park, yielding the purest limestone, was expanded to maintain supplies of high-grade lime for steel-making and other uses. The project and advanced design of crushing plant and kiln are described and also the measures taken to minimise pollution and preserve the landscape.
UK. 2376 19 mins 1973

BRITISH GAS CORPORATION

THE AIR - MY ENEMY
Colour 25 mins 16 mm

BRITAIN'S NATURAL GAS
Colour 21 mins 16 mm

I'M GLAD YOU ASKED THAT QUESTION
Colour 10 mins 16 mm

The above films are available on free loan from:

VISCOM FILM LIBRARY
Parkhall Road Trading Estate,
Dulwich,
London SE21 86E
tel: 01-670 6161

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY

Colour 10 mins 16 mm £3 + VAT

Available from:
BMA/BLAT FILM LIBRARY
BMA House,
Tavistock Square,
London SC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

CLEAN BEACHES

Colour 14 mins 16 mm

Available only from:
Films/TV Branch,
The British Petroleum Co.Ltd.,
Britannic House,
Moor Lane,
London EC2Y 9BU
tel: 01-920 6000

THE COMBUSTION PROCESS

Colour 26 mins 16 mm

ENERGY IN PERSPECTIVE

Colour 21 mins 16 mm

HAZCHEM

Accidents involving hazardous chemicals and fuels in transit by road are extremely rare, but with the volume of products on the move growing and traffic densities increasing, concern for safety is greater than ever. This is the reason for the introduction of the UK Hazard Information System label.

This film, which explains the new label and how it works, is primarily intended for those directly concerned with the safe movement of chemicals by road: chemical manufacturers, haulage contractors and drivers, emergency services, local authorities etc.
Colour 14 mins 16 mm

PLANET WATER

Explains how the sea influences our climate, and considers the growing conflict between industry, recreation and coastal traffic which are pressing upon our crowded shores. It studies the fishing industry and sea-farming which could provide a partial answer to the world's food shortage, and examines the problem of pollution which is gradually turning parts of the sea into a cesspool.
Colour 25 mins 16 mm

THE SHADOW OF PROGRESS

The environmental dilemma is at the heart of this broadly based and truly international film, which examines our technological, affluent age, and asks basic questions about what we are doing and where we are going. It is a concerned film. But it is not without hope. It discusses remedies and examines some of the world's most striking remedial projects. Above all it is a provoking film; about a crisis of numbers; of air; water and soil; of space to live and the quality of life itself; a crisis which concerns us all.
Colour 27 mins 16 mm

THE TIDE OF TRAFFIC

Colour 29 mins 16 mm

WEB OF LIFE SERIES

Seven films examining the ecological balance of the world's major systems: THE LIVING LAKES; THE LIVING MOUNTAINS; THE LIVING RAIN FOREST; THE LIVING RIVER; THE LIVING SAVANNA; THE LIVING TUNDRA; THE LIVING WOODLAND.
Colour 30 mins 16 mm

The above films are available on free loan from:

THE BP FILM LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1129

REFUSE WITH A FUTURE

UK. 2379 12 mins 1974

THE SKY IS A CANVAS

Sequences illustrating the duties of an Alkali and Clean Air Inspector are interwoven with footage of L.S. Lowry paintings to demonstrate what has been done about air pollution and its associated evils.
UK. 3389 22 mins Hire 1978

VENICE IN PERIL

The splendid architecture of Venice and its art treasures are at risk from tidal forces, air pollution and water. Using contemporary paintings, the film shows the history of Venice. The Italian government and UNESCO are co-operating to secure the city against the threats - posed by nature and economic and social factors - to its survival.
V. 760 16 mins Hire 1969

The films above are all 16 mm, ('Hire' indicated films not on free loan. Hire prices on request).

Available from:
CENTRAL FILM LIBRARY
Government Building,
Bromyard Avenue,
Acton, London W3 7JB
tel: 01-743 5555

CONCORD FILMS COUNCIL LTD

AND ON THE EIGHTH DAY

Thames TV 1970.
Colour 60 mins £12.80

A CLEANER, GREENER CITY

Germany. 1975. (English commentary)
Colour 15 mins £2.60

EH! WHAT?

Granada "World in Action" programme, 1973
Colour 30 mins £8.40

THE ENERGY SERIES:

ENERGY: THE DILEMMA

Colour USA 1974 20 mins £5.20

ENERGY: THE NUCLEAR ALTERNATIVE

Colour USA 1974 20 mins £5.20

ENERGY: NEW SOURCES

Colour 20 mins £5.20

ENERGY: LESS IS MORE

Colour USA 1974 18 mins £5.20

FIRST MILE UP

Study of air pollution. Canada 1961.
B/W 30 mins £5.20

LIVING DANGEROUSLY

Granada "World in Action" programme. 1976
B/W 30 mins £4.60

MAN: THE POLLUTER

A richly illustrated cartoon film that enlarges on man's capacity to foul his own nest and to ignore it. Made by a joint team of Canadian and Yugoslav animation artists, the film transmits its warning with unflagging humor, imagination, movement and design. In between animated sequences Dr. Fred H. Knelman, Professor of Science and Human Affairs, Concordia University, Montreal, comments on the import of what is shown and on what lies in store if more responsibility is not taken on a global scale to conserve what is left of our vital resources and livable environment. N.F.B.C. 1978.
Colour 53 mins £13.80

NO ACT OF GOD

National Film Board of Canada 1977

Colour 30 mins £8.40

NUCLEAR WASTE IN THE IRISH SEA

Granada "World in Action" film, 1976.

Colour 30 mins £7.40

POLLUTION SERIES:
THE FIRST POLLUTION

Water quality management and improvement techniques. USA 1966

Colour 26 mins £7.40

THE SECOND POLLUTION

Air Pollution. Los Angeles and Chicago provide illustrations. USA 1966.

Colour 22 mins £7.40

THE THIRD POLLUTION

Solid Waste disposal. USA 1966

Colour 23 mins £7.40

POPULATION AND POLLUTION

Suitable for older school children upwards. USA 1970.

Colour 18 mins £5.00

SMALL IS BEAUTIFUL

The film looks at the life and work of E.F. Schumacher, author of Small is Beautiful. This Canadian film was shot partly in England where Schumacher and George McRobie of the Intermediate Technology Institute discuss and and illustrate Schumacher's ideas. Additional filming to contrast largescale and Intermediate Technology experiments was completed in Newfoundland. The film reflects the broad visions of the author which have continued to gain an ardent following around the world, despite his death. NFBC 1979.

Colour 27 mins £8.40

THE SOLAR HOUSEHOLD
COUNTRY COLLEGE

Designed to boost confidence in the use of solar energy to provide domestic hot water, the film first shows an experiment proving how easily the sun heats water, and how the heat can be trapped, and then shows a swimming pool installation, two local government housing schemes where solar collectors have been installed, and an exhibition where the solar trade demonstrates the sytems they have to offer. Ends with a closer look at one manufacturers' research programme in which new, cheaper construction methods and materials are being tested for reliability. 1978.

Colour 25 mins £5.40

A STENCH IN THE EAR

Yorkshire TV 1976.

Colour 30 mins £8.40

WHO STOLE THE QUIET DAY?

Noise - comprehensive film suitable for most age groups. USA, 1973.

Colour 16 mins £4.80

The above films are all 16 mm. Prices quoted are for one-day hire charge. Each extra day is charged at one quarter of the figure given.

Available from:
CONCORD FILMS COUNCIL LTD
Nacton,
Ipswich,
Suffolk IP10 0JZ.
tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES - WHAT ARE THE FACTORS?

Colour 20 mins 16/8 mm

MAKE ROOM WITH ELECTRICITY

Colour 24 mins 16/8 mm

The above films are available on free loan from:

THE ELECTRICITY COUNCIL, FILM LIBRARY,
30 Millbank,
London SW1P 4RD

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industry in the United Kingdom.

A catalogue lists 16 mm films, 35 mm filmstrips, posters, publications, information sheets, wall charts and other educational material. These are available from the Electricity Council and the Central Electricity Generating Board in England and the Northern Ireland Electricity Service.

Educational material and facilities (including environmental study centres, nature trails and visits to power stations) are also provided by the regional offices of the CEGB. Details from
UNDERSTANDING ELECTRICITY,
Electricity Council,
30 Millbank, London SW1P 4RD.

FIELD STUDIES COUNCIL

THE HIDDEN WORLD
Colour 19½ mins 16 mm

Available from The Secretary
FIELD STUDIES COUNCIL
62 Wilson Street,
London EC2A 2BU.
tel: 01-247 4651

GATEWAY EDUCATION MEDIA

BIOLOGICAL EQUILIBRIUM
Colour 12 mins 16 mm £5.50

OF BROCCOLI AND PELICANS AND CELERY AND SEALS
Colour 29 mins 16 mm £7.10

The above films are available for hire from:
GATEWAY FILM HIRE LIBRARY
15 Beaconsfield Road,
London NW10 2LE.
tel: 01-451 1127

GUILD SOUND & VISION LTD

KEEP IT CLEAN
Colour 16 mins free loan

THE KEY TO DIESEL EFFICIENCY
Colour 12 mins free loan

A LOAD OF OLD RUBBISH
Note: This film is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, Room 226, The County Hall, Greater London Council, London SE1.
Colour 26 mins £4.55 + VAT

SOMETHING CAN BE DONE ABOUT WATER
BASF United Kingdom Ltd.
Colour 26 mins £4.55 + VAT

SOUND SENSE
Colour 16 mins free loan

TAKEN FOR GRANTED
The film is available on 'free loan' to anyone living within the Thames Water Region.
Colour 15 mins £4.20 + VAT

The above films are available from:
GUILD SOUND & VISION LTD.
Woodston House,
Oundle Road,
Peterborough PE2 9PZ.
tel: Peterborough (0733) 63122

MOTHERWELL BRIDGE TACOL LTD

NO TIPPING
Colour 14 mins 16 mm

Available from:
MOTHERWELL BRIDGE TACOL LTD

Green Dragon House,
64/70 High Street,
Croydon,
Surrey CRO 1NA.
tel: 01-686 6917

N.C.B. FILM LIBRARY

CLEAN AIR AT HANDSWORTH
Colour 8 mins 16 mm 1967/72

CLEAR THE AIR
Colour 11 mins 16 mm 1976

CHIMNEYS
Colour 21 mins 16 mm 1975

DISTRICT HEATING
Colour 24 mins 16 mm 1972

GETTING THE BEST OUT SUNBRITE
Colour 7 mins 16 mm 1977

INCINERATE - WITH COAL
Colour 26 mins 16 mm 1973

LIVING FIRE
Colour 5½ mins 16 mm 1973

NOT JUST FOR BURNING
RESEARCH INTO COAL AT C.R.E.
1971 revised 1974.
Colour 25 mins 16 mm

SFAS - SOLID FUEL ADVISORY SERVICE
Colour 16 mins 16 mm 1975

TOMORROW'S COAL
Colour 27 mins 16 mm 1974

WELCOME HOME
Colour 22 mins 16 mm 1968

The above films are available on free loan from:
NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London SW1X 7AE.
tel: 01-235 2020
telex: 882161

NATIONAL SOCIETY FOR CLEAN AIR

HORSEPOWER AND HYDROCARBONS
Colour 22 mins 16 mm 1968

Available from:
NATIONAL SOCIETY FOR CLEAN AIR
136 North Street
Brighton BN1 1RG
Sussex
tel: Brighton (0273) 26313

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY
Colour 25 mins free loan

Available from:
SHEFFIELD PUBLICITY OFFICE
Town Hall,
Sheffield 1.
tel: (0742) 26444

SHELL FILM LIBRARY

ENVIRONMENT IN THE BALANCE
Colour 30 mins 16 mm 1978

LOAD ON TOP
Colour 14 mins 16 mm 1976

OIL
Colour 18 mins 16 mm 1971

THE RIVER MUST LIVE
Colour 21 mins 16 mm 1976

The above films are available from:
SHELL FILM LIBRARY
25 The Burroughs,
Hendon,
London NW4 4AT.
tel: 01-202 7803

BARRY WILES FILMS

THE CHOICE
Describes pollution of Air, Water and Land. Concentrates on controls and solutions. Imperial Chemical Industries Ltd.
Colour 21 mins Super 8 mm/
Standard 8 mm

RUBBISH BY RAIL
Shows how railbourne waste is taken to worked-out gravel pits in Oxfordshire which are then

carefully restored to agricultural use. Produced for Railfreight in conjunction with the GLC and the Amey Roadstone Corp. Brit. Transport films, 1977.
Colour 7 mins Super 8 mm only (Hire) 75p

Available from:
BARRY WILES FILMS
Screen House,
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BRITISH COMBUSTION EQUIPMENT MANUFACTURERS ASSOCIATION
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BRITISH INDUSTRIAL MEASURING AND CONTROL APPARATUS MANUFACTURERS ASSOCIATION
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BRITISH STANDARDS INSTITUTION
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CONFEDERATION OF BRITISH INDUSTRY
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SCIENTIFIC INSTRUMENT MANUFACTURERS' ASSOCIATION OF GREAT BRITAIN (SIMA)
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SIRA INSTITUTE LTD
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Verein Deutscher Ingenieure (VDI) - Kommission Reinhaltung der Luft, Graf-Recke-Str. 84, Postfach 1139, 4 Dusseldorf 1.

Vereinigung der Technischen Uberwachungs-Vereine e.V., 43 Essen,
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VGB - Technische Vereinigung der
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Internal Combustion Engines
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Public Health, Section of Physiological & Industrial Hygiene,
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ESSO Standard Italiana - Environment Division, Piazza Industria,
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Instituto Superiore di Sanita,
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THE UNITED NATIONS ECONOMIC
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Environment and Human Settlements
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Air Pollution Control Association
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Bituminous Coal Research Inc.,
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U.S. Environmental Protection
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Street, S.W., Washington, D.C.
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also:
Research Triangle Park, North
Carolina 27711.

Other U.S. Governmental Air Pollution Agencies and individual State Agencies are listed in an annual Directory published by the Air Pollution Control Association in co-operation with the U.S. Environmental Protection Agency. A copy of this Directory is available at the library of the National Society for Clean Air.

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*Entry taken from 1978 Members' Handbook, as no reply received from enquiry.

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The International Union was originally established in 1965 with six founder members - Argentina, France, Great Britain, Japan, United States of America and West Germany. The Union consists of non-governmental organisations only and its primary functions are to promote collaboration and the exchange of information on air pollution and environmental problems and to organise, through its member associations, international congresses. The first congress of the Union was held in London in 1966; the second International Congress was held in Washington D.C., U.S.A., in December 1970, and the third International Congress in Dusseldorf, Federal Republic of Germany, in October 1973. The fourth Congress was held in Tokyo, in May 1977.

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ASSOCIATION POUR LA PREVENTION DE LA POLLUTION ATMOSPHERIQUE (APPA)

62 rue de Courcelles, 75008
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tel: Paris 766.03.51
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Via Fabiani 3, Metanopoli, 20097,
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39 Chung-Haiao W. Road, Taipei,
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Representative: Chin Yuan Chuang

NATIONAL ASSOCIATION FOR CLEAN AIR (NACA)

P.O. Box 5777, Johannesburg 2000
South Africa.
tel: Johannesburg 41-0616
Representative: J. L. Easterbrook

SCHWEIZERISCHE VEREINIGUNG FUR GESUNDHEITSTECHNIK (SVG)
Postfach 305, CH-8035 Zurich,
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tel: Pittsburg 621-1090
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71001 Sarajevo, Masinski fakultet,
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tel: Sarajevo 46-555
Representative; Prof. M. Krstic

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Department of Chemical Engineering
Institute of Technology, Banaras
Hindu University, Varanasi - 221
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Representative: Dr. D.N. Rao

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P.O.B. 23047, Tel-Aviv 61230,
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20 DF, Mexico.
Representative: Dr. Humberto
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tel: 01-831 7581
telex: 23485

Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage and packing free). Also general information booklet about Association and Members - free.

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The main function of the Unit is to provide a comprehensive service of contract research to industrial, government and other organisations.

The Unit undertakes applied research on the chemical and thermochemical changes undergone by solid, liquid and gaseous materials over a wide range of temperature both on their own and in contact with air other gases. This enables information of practical value to be obtained concerning the deterioration, decomposition, slow oxidation, smouldering and free burning of materials as well as their burning as part of an assembly of materials.

The Unit also provides a consultancy service regarding the manufacture, handling and use of unstable or flammable materials which includes the preparation of surveys or reports on the safety of materials associated with particular processes and projects. Enquiries to:
Dr. A.W. Benbow.

WARREN SPRING LABORATORY

Department of Industry, Gunnels
Wood Road, Stevenage, Herts.
SG1 2BX
tel: Stevenage (0438) 3388
telex: 82250

Consultancy and contract research is available for:

a) sampling, measurement and characterisation of odours from process emissions for monitoring, abatement and control.

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Bucks. HP12 3QP
tel: 0494-25252

Manufacturers of the BCURA flue gas dust sampling apparatus (BS 3405), the C.E.G.B. Mk3A flue gas dust sampling apparatus, and the C.E.G.B. approved SEROP flue stack smoke monitor. A wide range of instruments is manufactured for air flow and pressure measurement. Agents in Australia, South Africa, USA and most European countries.

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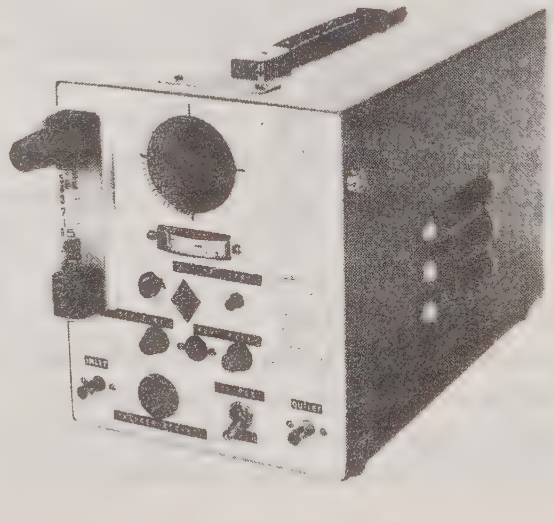
telegrams: Capumps Byfleet

The F.I. Unit illustrated is normally used with an approved range of sampling devices for taking a quantitative sample of an industrial atmosphere for subsequent analysis. Manufacturers of a range of diaphragm pumps covering flow rates from 0.5 to 70 litres per minute.



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telex: 934150 bk labs g

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tel: 0642 69791
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Davy International Process Engineering Division is an engineering and contracting company providing basic design services, engineering, management, equipment procurement and erection services for coal preparation, mining, sintering, pelletising, effluent treatment, nuclear and chemical engineering plants.

Davy International Process Engineering Division is part of Davy International (Minerals & Metals) Ltd, a Davy Corporation company

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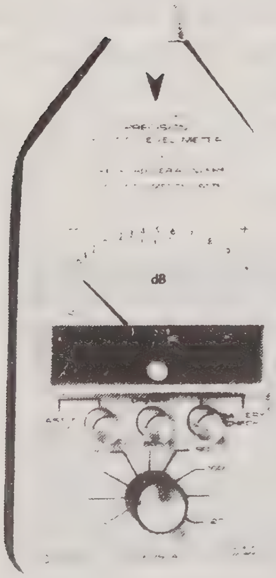

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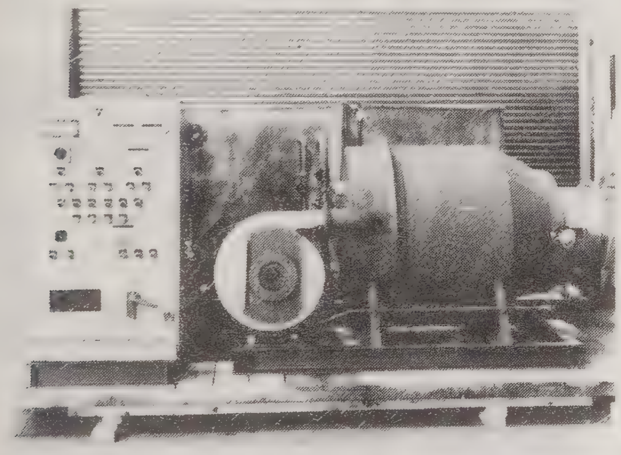

ENVIRONMENTAL CONSULTANCY SERVICE
c/o BNF Metals Technology Centre,
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Wantage, Oxfordshire OX12 9BJ
tel: 023 57 2992
telex: 837166

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BN1 1RG
tel: 0273 26313

EPEMA

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The Association ensures that its members manufacture, market and install equipment of the required standard.

A copy of our Members' Handbook, which gives details of our Association and our members will be forwarded upon request.

ESMIL LTD.
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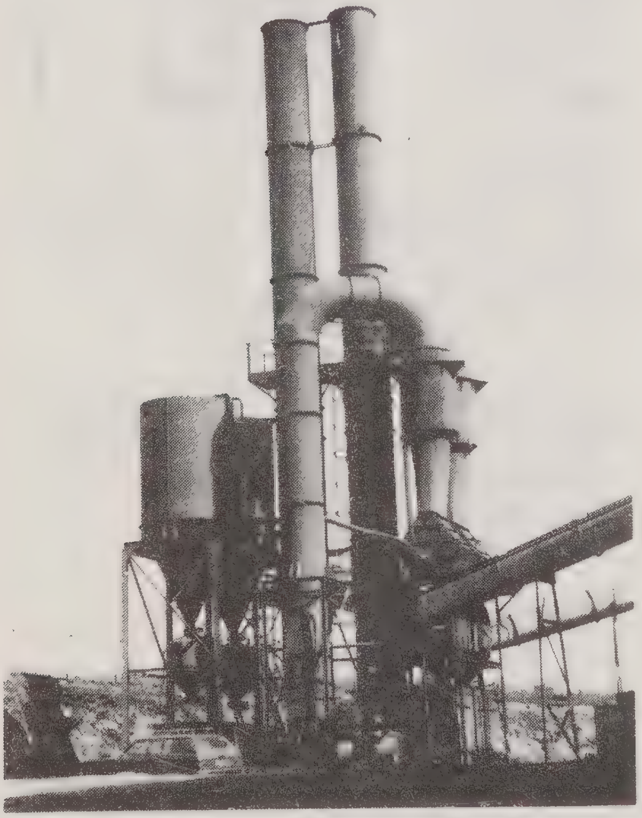

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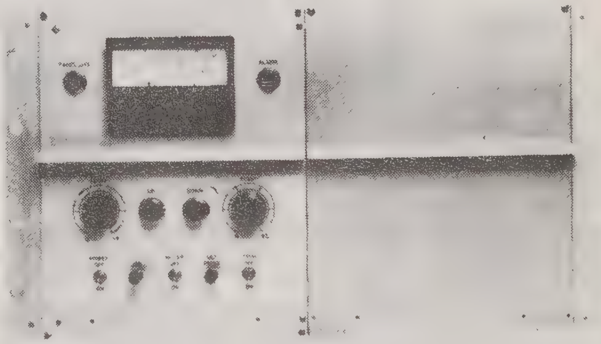

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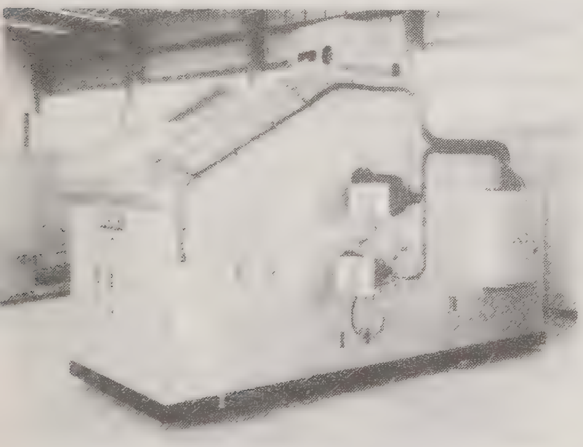

Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

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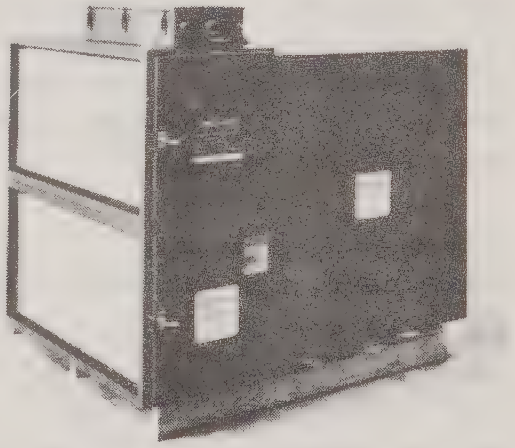

Photograph: Model SH40 'stacked' SMOG-HOG unit, nominal capacity 4000 c.f.m.

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Nailsea Engineering Co. Ltd.
Peabody Holmes Ltd.

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NATIONAL SOCIETY FOR CLEAN AIR

The parents of the Society were the Coal Smoke Abatement Society, established in London in 1899. In 1929, the CSAS combined with the Smoke Abatement League of Great Britain, a group of provincial associations, and became the National Smoke Abatement Society. The NSAS widened its horizon to cover all forms of air pollution and in 1958 the name was changed to the present one. The Society's membership includes private individuals, local authorities, corporate bodies representing the learned societies and institutions, the fuel industries, and other industrial companies. The Council of the Society, with a number of reporting committees, governs the organisation and policies of the NSCA, and an administrative staff is employed at the Brighton Headquarters.

The Society's object is to promote public education in all matters relating to the value and importance of clean air, and to initiate, promote and encourage investigation and research into all forms of pollution in order to achieve its reduction or prevention. The NSCA is a founder member of an international group, the International Union of Air Pollution Prevention Associations, the function of which is to promote international collaboration and exchange of information, and to organise congresses. The Society is an Associate Member of the International Association Against Noise.

The Society publishes the proceedings of its annual conferences, workshops and seminars. Other regular publications are the journal 'Clean Air' and the Reference Book. Pamphlets, booklets and technical reports on particular subjects are also published from time to time.

The Society's main activities are the holding of conferences, seminars, meetings and exhibitions. The information service provides educational and publicity material, collecting and disseminating books, periodicals, photographs and slides on the causes, effects and prevention of atmospheric and other forms of pollution. Special pamphlets are published for schools, schoolchildren and students.

The Society's Library is available for consultation or for loan purposes. The Library possesses an extensive collection of British and foreign books, reports, papers and current journals. There is a classified collection of photographs on air pollution and a collection of colour slides and filmstrips. Students and research workers are welcomed at the Society's offices to use the Library resources.

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
3.(1) The object for which the Society is established is to promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control.

(2) In furtherance of the foregoing object but not further or otherwise the Society shall have the following powers:

(A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.

(B) To promote by meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means the collection and dissemination of knowledge about pollution, its causes and effects, and the means to prevent it.

(C) To encourage the adoption of methods to reduce and prevent pollution.

(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.

(E) To initiate, support and co-operate with others in proposals and activities calculated to assit the promotion of the Society's objects.

(F) To establish, and support or aid in the establishment and support of any charitable associations or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.

(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.

(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.

(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.
(M) To take all such other steps as will further the attainment of the above objects or any of them.
PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.
PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.
PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commiessioners for England and Wales or the Secretary or State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend bonus or otherwise howsoever by way of profit, to the members of the Society.
PROVIDED that nothing herein shall prevent the payment, in good faith,

of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

THE COMPANIES ACTS 1948 to 1967
COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:-

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a

Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.

Words importing the masculine gender only shall include the feminine gender and vice viersa and

Words importing persons shall include corporations.

Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.

3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.

4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Soeity for election.

(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership

INDIVIDUAL MEMBERS

(c)(i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.

(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

LOCAL AUTHORITY MEMBERS

(d)(i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than four Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation "Local Authority" shall be deemed to include "Health Authorities" and "Water Authorities" or such other like authorities as the Council shall from time to time admit for membership.

CORPORATE MEMBERS

(e)(i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but it if desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

SUSTAINING MEMBERS

(f) Any member who subscribes not less than the sum as prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a Sustaining Member.

HONORARY MEMBERS

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

STUDENT MEMBERS

(h) Any bona fide non-graduate student pursuing a course of study at

school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

APPLICATION FOR MEMBERSHIP

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

RESIGNATION OF MEMBERS

(j)(i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

(a) whose annual subscription has remained unpaid for two successive years, or

(b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

ANNUAL SUBSCRIPTIONS

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETINGS

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary General Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other

than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings othern than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental ommissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:-

- (a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.
- (b) Appointing Auditors and fixing their remuneration.
- (c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman

or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in ~~demanding a poll.~~

HONORARY OFFICERS

23. The Officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be appointed by the Society as a Vice-President, provided that he or she is:

- (i) A person distinguished by his or her work in relation to pollution control, or
- (ii) A person deserving of honour for services rendered to the Society or whose association with the Society is for other reasons desirable.

(b) Vice-Presidents shall not exceed six in number.

(c) The term of office of a Vice-President shall not exceed three years at the end of which term he may, if he so agrees, be re-elected to the office.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership (including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the

Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term "National or similar organisation" shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:-

(a) If he ceased to be a member or a Representative of a member of the Society;

(b) If by notice in writing to the Society he resigns his office;

(c) If a receiving order is made against him or he make any arrangement or composition with his creditors;

(d) If he becomes of unsound mind;

(e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;

(f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

(a) As to entrance fees (if any) payable in respect of membership of the Society.

(b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.

(c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.

(d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.

(e) As to the manner in which the Elections of Officers and Council members shall be conducted.

(f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37. (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In case of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under

the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provision of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

- (a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
- (b) all sales and purchases of goods by the Society; and
- (c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Special Resolution dated the 29th March 1974 and as amended on 13th October 1976, 6th July 1977, 20th July 1978 and 16th July 1980.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) Individual Members

(i) The annual subscription payable by an Individual Member shall be not less than Six Pounds. On attainment of the age of 65 on payment of a sum of Twelve Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.

(ii) Individuals may on payment of not less than One Hundred and Twenty Pounds become Life Members of the Society.

(b) Local Authority Members

The annual subscription payable by a Local Authority shall be not less than as follows. For Local Authorities with a population of:

Less than 100,000	£ 85.00
100,001 to 250,000	£105.00
250,001 to 500,000	£125.00
500,001 to 1,000,000	£165.00

For each additional 500,000 or part thereof £17.00

(c) Corporate Members and Unincorporated Bodies appointed in accordance with Article 4(e)(ii)

The annual subscription payable by Corporate Members and Unincorporated Bodies shall be not less than as follows:

(i) Small local civic societies, colleges, schools and similar organisations £10.00

(ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms £60.00

(iii) Industrial organisations £85.00.

(d) Sustaining Members

The annual subscription for Sustaining Members shall be not less than £200.00.

(e) Membership - Special Cases

The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3. (a) Local Authority Members

Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b) Corporate Members

- (i) Corporate Members paying a subscription of £10.00 per annum shall each be entitled to appoint one Representative.
- (ii) Corporate Members paying a subscription of £60.00 per annum shall each be entitled to appoint three Representatives.
- (iii) Corporate Members paying a subscription of £85.00 or more per annum shall each be entitled to appoint five Representatives.
- (iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each Individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

- (i) Nominate Individual Members and Representatives as officers or Members of the Council;
- (ii) Be nominated and elected as an Officer or Member of the Council;
- (iii) Cast one vote at elections;
- (iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
- (v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
- (vi) Receive free of charge as they are issued the Journal and Members' Handbook of the Society.
- (vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5.(a) For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. Scotland
2. Northern Ireland
3. Northern:
   Cleveland, Cumbria, Durham, Northumberland, Tyne and Wear.
4. North West:
   Cheshire, Clwyd, Greater Manchester, Gwynedd, Lancashire, Merseyside.
5. Yorkshire and Humberside:
   Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands:
   Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
7. East Midlands:
   Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.
8. Eastern:
   Essex, Norfolk, Suffolk.
9. London and South East:
   East Sussex, Greater London, Hertfordshire, Kenty, Surrey, West Sussex.

10. Central Southern:
    Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
11. South West:
    Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
12. South and Mid Wales:
    Wales except for Clwyd and Gwynedd.

or such additions or alterations to areas as the Society may determine.

(b) All Members shall be considered as belonging to the Division in which their address, as entered upon the Society's records is situated.

(c) For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.

(d) The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

6.(a) The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.

(b) Vice Presidents shall be elected every three years on the recommendation of the Council by the Society at its Annual General Meeting.

(c) Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

7.(a) The business of the Council shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.

(b) The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen, and the following Committees:

(i) Conference and Publicity
(ii) General Purposes and Finance
(iii) Parliamentary and Local Government
(iv) Technical
(v) Any other Committee considered by the Council to be necessary.

(c) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.

(d) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8.(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the offices of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).

Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President: Sir Derek Ezra, MBE
Immediate Past President: Lord Flowers, MA, DSc, FRS
Vice Presidents: Stanley E. Cohen, CBE
L. Eastwood
Prof. P.J. Lawther, CBE, MB, BS, DSc, FRCP
T. Henry Turner
Hon. Treasurer: B.H. Edwick
Chairman of Council: A.J. Clarke
Deputy Chairmen: H. Giblin
W.B. Twyford
Immediate Past Chairman: H.I. Fuller, MA, F.Inst.Pet.

PAST PRESIDENTS: Dr. H.A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F.E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Mr. S.E. Cohen, CBE; Sir John Greenborough, KBE; Professor P.J. Lawther, CBE; Lord Flowers, FRS.

THE COUNCIL OF THE SOCIETY

Elected Divisional Representatives:

Scotland - E. Gibson, I. MacPherson, P.J. McPartlin
Northern Ireland - J.R. Lamont
Northern - C.R. Cresswell, Cllr. L. Poole, Cllr. T.W. Yellowley
North West - M. Dickinson, D. Horner, I. Liversidge, J.B. Marsh, W.F. Snow, A.T. Traynor
Yorkshire & Humberside - I.W. Barker, D. Greenwood, L. Hay, W.B. Twyford
West Midlands - Cllr. G.T. Randall, Rev. B.N. Shackleton T. Townsend
East Midlands - Cllr. R.S. Chamberlain, K.R. Enderby, D.F. Haynes, Mrs. E.J. Inglefield
London & South East - M. Beaumont, E. Briggs, J. Clancey, Mrs. G.E. Naylor, Professor R.S. Scorer, G.C. Stubbs, Cllr. F.E. Walsh.
Central Southern - K.B. Dorman, A.J. Rees, R.F. Shapter
South West - H. Dawson, L.E. Robson
South & Mid Wales - Cllr. D.F. Bevan, T. Jones, Cllr. C. Lewis

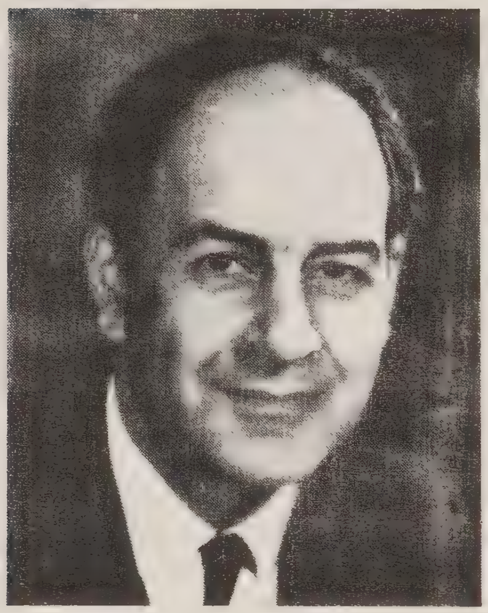
Appointed Representatives of National Bodies:

Asbestos Information Centre: T.E. Nash
British Gas Corporation E.A.K. Patrick
British Steel Corporation: D.A. Harrison
Central Electricity Generating Board, A.J. Clarke
Environmental Health Officers Association: E. Robson
E.P.E.M.A.: K.S. Dunn
Industrial Gas Cleaning Association: K.H. Pearson
Institute of Gas Engineers: Dr. F.E. Shephard
Institute of Petroleum: H.I. Fuller
Low Temperature Coal Distillers' Association: R. Pane
National Coal Board: R.W.C. Wheatley
Royal Society of Health: T.E.R. Ware
Solid Smokeless Fuels Federation: H. Giblin
Women's Gas Federation & Young Homemakers: Mrs. R. McLusky
Women's Solid Fuel Council: Miss K. Bradbury

Secretary General: Air Commodore J. Langston, CBE

Auditors: Messrs. Geo. Little, Sebire & Co.

WHO'S WHO

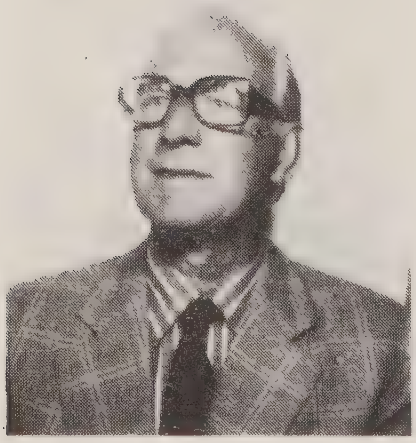


SIR DEREK EZRA, MBE, President of the Society. Sir Derek (created a Knight Bachelor in the Birthday Honours, June, 1974) was born on 23rd February, 1919, and educated at Monmouth School and Magdalene College, Cambridge. He joined the Army as a gunner in 1939. He was awarded the MBE in 1945 for wartime services, and after demobilisation in 1947, with the rank of Lt. Colonel, joined the Marketing Department of the National Coal Board. Sir Derek was appointed a Member of the National Coal Board in July, 1965 (with special responsibility for marketing) and Deputy Chairman in May, 1967, and he became Chairman - in succession to Lord Robens - on 3rd July, 1971. Sir Derek is a member of the Government's Advisory Council for Energy Conservation; President of the Consultative Committee of the European Coal and Steel Community in Luxembourg; Chairman of the Confederation of British Industry's Europe Committee, and a member of the CBI Council; a member of the British Overseas Trade Board and Chairman of the BOTB European Trade Committee; a Governor of the London Business School; a member of the Court of Governors of the Administrative Staff College, Henley; a member of the Court of the Cranfield Institute of Technology; and a Governor of Imperial College.

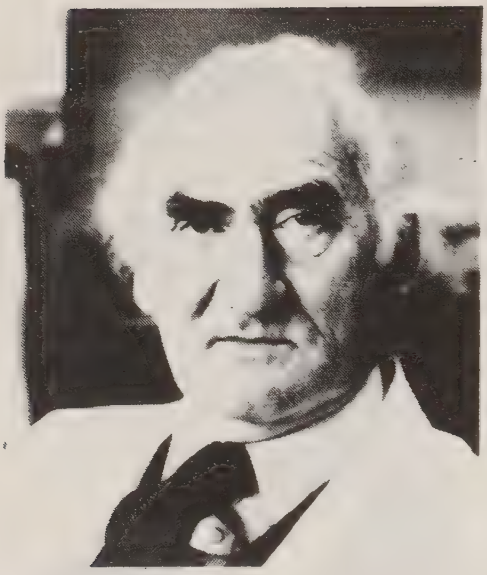
LORD FLOWERS, FRS, Immediate Past President of the Society (1977/79), was educated at Swansea, Gonville and Caius College, Cambridge and at the University of Birmingham. He was appointed Head of the Theoretical Physics Division at Harwell in 1952 and Chief Research Scientist in 1958. In the same year he became Professor of Theoretical Physics at Manchester University and from 1961-72 was Langworthy Professor. From 1966 to 1970 he was Chairman of the Computer Board for Universities and Research Councils. In

1967 he was appointed Chairman of the Science Research Council. He was President of the Institute of Physics, 1972-74. He became Rector of Imperial College of Science and Technology in 1973, and was Chairman of the Royal Commission on Environmental Pollution 1974-76. In 1974, he was elected President of the European Science Foundation and in 1976 was re-elected for a further two years. In 1978, he was appointed Chairman of the Standing Commission on Energy and the Environment.

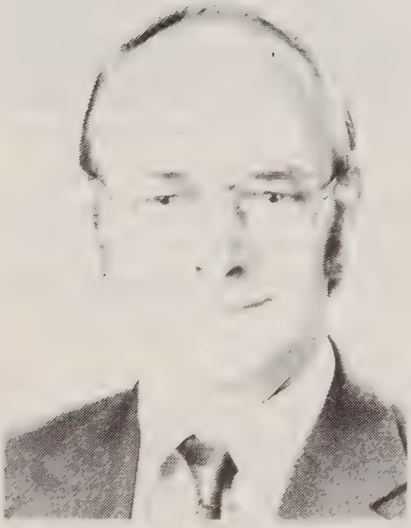
STANLEY E. COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.



LEONARD EASTWOOD, Vice President of the Society, represented the Yorkshire and Humberside Division and was a member of the Parliamentary and Local Government Committee. He was Director of Environmental Health for Rotherham until his retirement in 1976 and an active worker in air pollution control, acting as an examiner in the subject for the Royal Society of Health for many years. He is a former Member of the Clean Air Council and a Past Chairman of the Yorkshire and Humberside Division and of the Yorkshire and Humberside Advisory Council on Air Pollution.

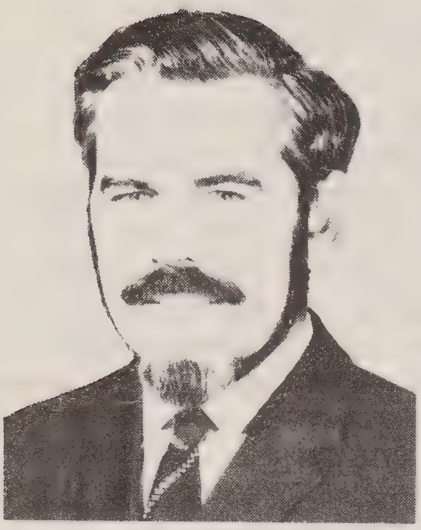


PROFESSOR PATRICK J. LAWTHER, CBE, MB, DSc, FRCP, MFOM, Vice President of the Society and former President (1975/7), was educated at Carlisle Grammar School, Morecambe Grammar School and King's College London. After spending one year as a school master he went into the Chemical Industry which he left in 1945. In 1950 he qualified as an MB BS of the University of London (St. Bartholomew's Hospital). He joined the Medical Research Council in 1955 to found the Air Pollution Research Unit (now called the Toxicology Unit, Clinical Section). He is now the Physician in charge of the Department of Environmental and Preventive Medicine at Bart's and is Professor of Environmental and Preventive Medicine of the University of London at St. Bartholomew's Hospital Medical College and the London Hospital Medical College. He acts as Consultant Adviser to the Department of Health and Social Security, and is Civilian Consultant to the Royal Navy in Environmental Medicine.



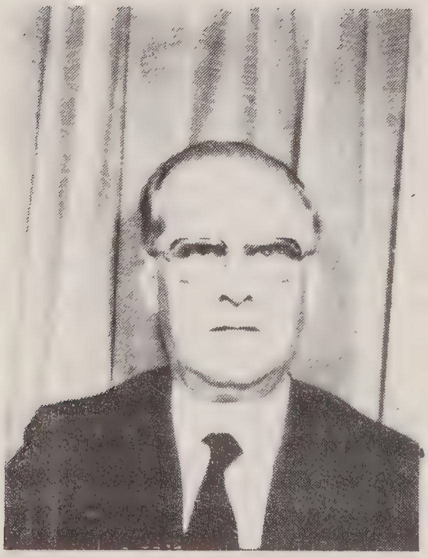
A. JOHN CLARKE, Chairman of the Council of the Society, represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Headquarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. Mr. Clarke has served on the Council since 1967 and was Chairman of the Technical Committee 1972/1978.

HOWARD I. FULLER, MA, FInstPet, Immediate Past Chairman of the Society represents the Institute of Petroleum. He is a Principal Research Scientist at the Esso



Research Centre, Abingdon, where he has worked for more than 30 years. His various activities include 6 years as technical adviser to Esso affiliates in countries of North Africa. For the last 16 years he has concentrated on environmental matters. He is now responsible for understanding and advising on public and governmental concerns about the environment with respect to Esso's products and operations. He has been a member of the NSCA Council since 1972.

HARRY GIBLIN represents the Solid Smokeless Fuels Federation. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 and in this position has helped Local Authorities in the implementation of their smoke control areas. He was appointed a Member of the Council of the Society in 1962 since when he has served on the Parliamentary and Local Government Committee. He is Senior Deputy Chairman of the Society's Council, and Chairman of the General Purposes and Finance Committee.

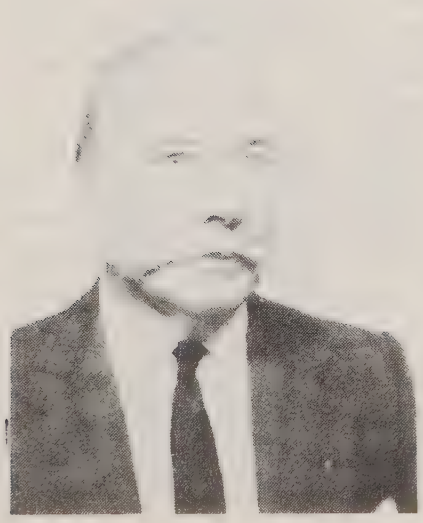


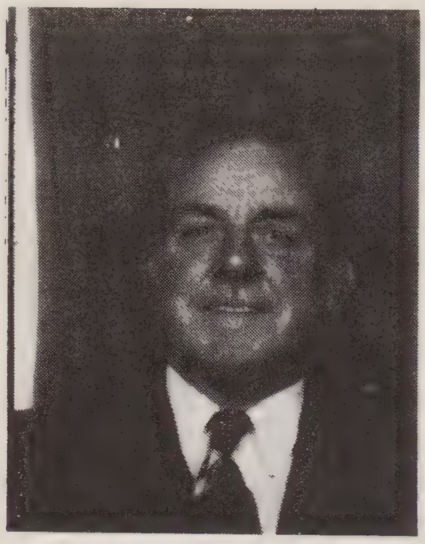
WILLIAM B. TWYFORD represents the Yorkshire & Humberside Division, NSCA. He has been actively involved with the work of the Society for the past 21 years. For most of that time he has been a Member of the Yorkshire & Humberside Divisional Council; he is a past Vice Chairman of the Division, and currently serves as Honorary Secretary. In recent years he has been Chairman of the Society's Conference and Publicity Committee and was elected junior Deputy Chairman of the Society's Council in 1980.

BRIAN HARRIS EDWICK, Honorary Treasurer of the Society, is Managing Director of F. E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers, and a member of the Finance and Management Committee of the Demolition and Dismantling Industry Register.

I. W. BARKER represents the Yorkshire and Humberside Division, and is Director of Environmental Health, City of Sheffield. He formerly held appointments with Manchester and with Leicester where he held the post of Assistant Chief Environmental Health Officer with special responsibility for Pollution and Noise Control. Prior to his present appointment, he was Chief Environmental Health Officer with Bracknell District Council. He has written and presented papers on air pollution and noise and in 1978 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.

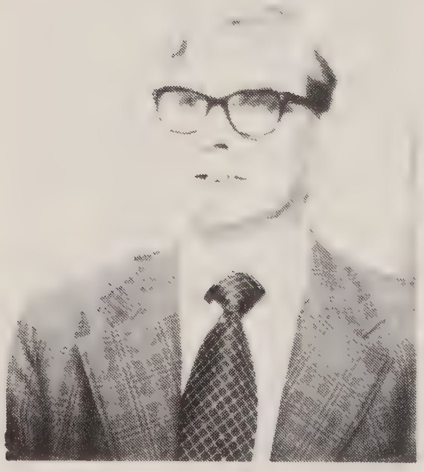
MAX BEAUMONT, FInstF, CIMGTechE, MIPI, represents the London & South East Division, NSCA. He was educated at Dulwich College and joined the family firm as an apprentice steeplejack. He served as pilot RAFVR 1940-1946. He joined the NSCA in 1965, was elected to the Council in 1972 and is current Chairman of the Technical Committee. He is founder member & past Chairman of the Environmental Protection Equipment Manufacturers Association, Chairman of the British Flue & Chimney Mfgs Assoc., Past President of the National Federation Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group. He is a Member of eighteen BSI Technical Committees, and a holder of four British patents. He is Chairman of F. E. Beaumont Ltd.



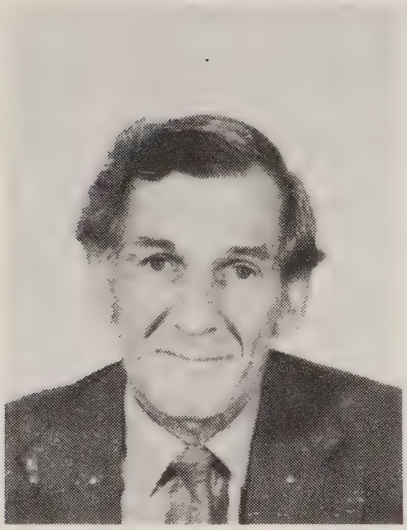


DAVID FRANKLYN BEVAN, CBE, FRSH, represents the South and Mid-Wales Division, NSCA. He was elected to Swansea Council in 1945 and continued until reorganisation in 1974 when he became a County Councillor for West Glamorgan. He was the first City Mayor of Swansea, 1969-70 and was Honoured by the Queen with CBE in 1970, and accepted Fellowship of RSH in 1973. He was Chairman of South Wales Division of NSCA and EC member before 1974. For 15 years he was Chairman of Swansea Health Committee and for 10 years Chairman of the Port Health Authority, being President of Association of Sea & Airport Health Authorities in 1968 and 1973. Now Chairman of West Glamorgan Family Practitioners Committee of the Health Service and many other local bodies.

MISS KATHLEEN BRADBURY represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1980 having previously been Chairman of the North Western Region WSFC. Originally with the Ministry of Fuel and Power, she was appointed to the Women's Advisory Council on Solid Fuel and served until 1973 as their Education Officer. She is the author of the WSFC Textbook 'Solid Fuel in the Home'. She has been associated with NSCA for many years and is currently a member of the North West Division of the Society.

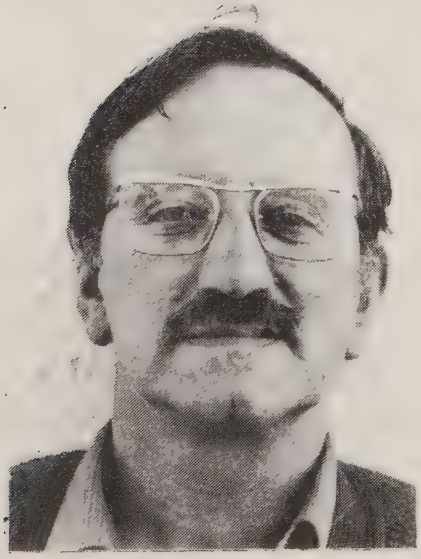


EDGAR B. BRIGGS, CEng, MIGasE, FInstE, FInstPet, represents BP Oil Ltd. He has participated actively in the Society's interests since 1958 and been a member of the London and South East Divisional Council since 1977. His technical training was in the gas manufacturing and the coke-oven industries, followed by over twenty years in the petroleum industry, mainly on technical and environmental activities. He is a member of several industrial or professional institute clean air panels; a member of the Second Working Party on Grit and Dust Emissions, and also of the recent Working Party on Chimney Heights.



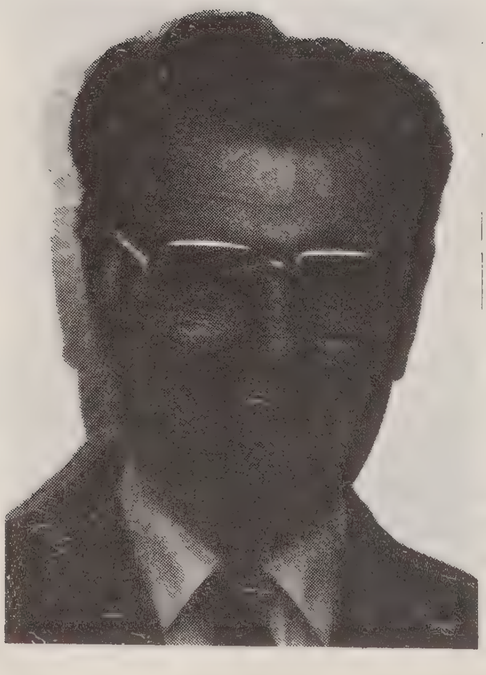
CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA. He has been a member of the East Midlands Division for thirteen years and a Member of the Council of the Society for seven years. He has been a Member of the Ashfield District Council and Kirkby-in-Ashfield UDC for fifteen years, was Chairman of the Kirkby-in-Ashfield UDC 1970/1, Chairman of the Kirkby-in-Ashfield UDC Health Committee from 1971/74, and Chairman of the Ashfield DC Environmental Health Committee, 1974 to the present time. He has served as Justice of the Peace for eight years.

JAMES C. CLANCEY, OBE, FIPHE, MIEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is Executive Vice President of the Royal Society of Health; Vice President and Chairman of Council of the Institution of Public Health Engineers; a member of Council of the Institution of Environmental Sciences and a past Vice President of the Environmental Health Officers Association. He was Chairman of the Council of the Society, 1975/6. He has for thirty years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.



COLIN R. CRESSWELL, CEng, FInstE, MEHA, MIDA, represents the Northern Division, NSCA. He is the Secretary of the Northern Division and has been a Member of Council since 1976. He was Chairman, North Eastern Branch, Institute of Acoustics for three years (till 1978) and is now a member of Committee. He has been Principal Environmental Health Officer (Pollution Control), Newcastle upon Tyne since 1974, and for eight years previously was Divisional Officer responsible for Pollution Control in West Bromwich. He is author of a standard textbook on air pollution, numerous articles and papers and is a Royal Society of Health examiner. He was awarded a European Fellowship in 1972 and studies pollution control in West Germany. He was a member of the Domestic Coal Consumers Council 1975/78, and is a member of the BSI Committee on Industrial and Neighbourhood Noise.

HYLTON DAWSON is the Health and Safety Engineer, Rolls-Royce Limited, Bristol, where he leads a team covering all engineering and systems controls in health and safety work, including pollution, safety, environmental engineering, occupational hygiene, ionising radiations and noise. After an early introduction to acoustics, which has fascinated him ever since, he joined the aircraft industry in 1957 and after having been involved in jet silencer research, came to Bristol to lead a research team in aero acoustics. He is co-patentee of covergent plate and notched silencers for supersonic jet engines and is a past member of the Noise Research Committee of the Aeronautical Research Council. In 1971 he was awarded the President's Gold Medal of the Society of Engineers for a paper on Aero Engine Noise, presented at a conference on Engineering and Its Effect on the Environment. He is Chairman of the Avon Occupational Health Society and has written and lectured extensively in Europe and the Americas on his specialist subject. He has a particular interest in low frequency acoustics and is concerned with investigating generation mechanisms and means of reducing low frequency noise in gas turbine installations.

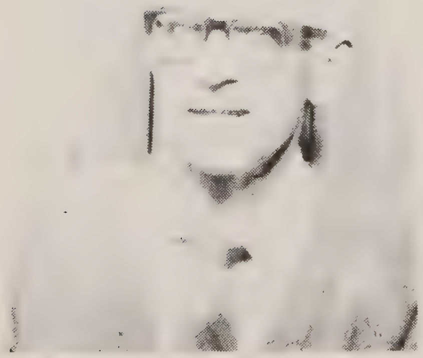


MAURICE DICKINSON, MEHA, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Environmental Health Officers' Association, and a Member of the Royal

Society of Health. He is keenly interested in all forms of pollution and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and a Member of the Manchester Area Council for Clean Air and Noise Control.

KENNETH B. DORMAN represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector (now Environmental Health Officer) in 1965 and was employed at West Bromwich, Gosport, Cambridge and currently at Slough Borough since 1973. He has been Deputy Director of Environmental Health since January 1978.

KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co. Limited of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Honorary Secretary of EPEMA in March 1973.



KENNETH R. ENDERBY represents the East Midlands Division NSCA. He has been City Environmental Health Officer, Peterborough City Council since 1974, and was previously Deputy Chief Public Health Inspector from 1961/74. He has been the representative of Peterborough City Council to the NSCA for 17 years, and a member of the East Midlands Division for 12 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference & Publicity Committee since 1974.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he has been a Member of HM Colonial Service working in Uganda. For the last three years he has been a Member of the Scottish Branch NSCA and for the last five years specialist Smoke Control Officer, City of Edinburgh District Council. Served in RAF 1945/1948.

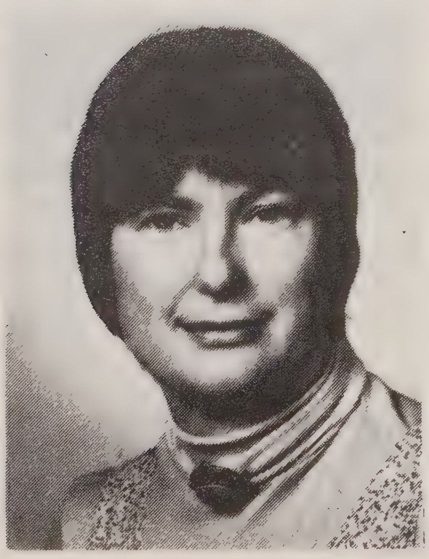
D. GREENWOOD, MEHA, Director of Environmental Health Services, Kirklees MBC, represents the Yorkshire & Humberside Division NSCA and is a member of the GP&F Committee.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC. He also represents the Corporation on the CBI Industrial Noise Panel.

LEWIS HAY represents the Yorkshire and Humberside Division, NSCA. He has been a local government representative to the Society since 1960 and a Member of the Yorkshire and Humberside Division Council since 1975. As Chief Public Health Inspector of the former Bentley-with-Arksey Urban District Council he implemented the smoke control programme in 1971 for the whole area and this was completed in 1975 under the new Doncaster Metropolitan District Council, where he is now Deputy Chief Environmental Health Officer. During the period 1970/1974 he was a Member of the Department of the Environment Working Party on the Suppression of Odours from Offensive and Selected Other Trade, representing the Urban District Councils Association.

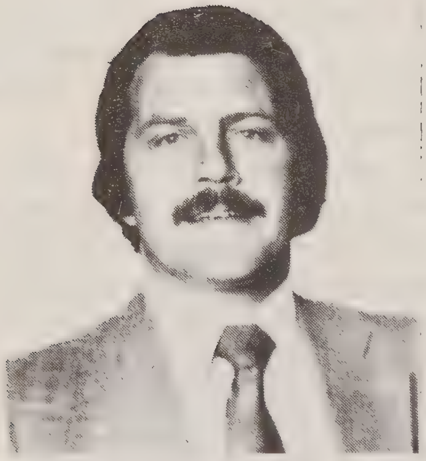
DAVID F. HAYNES, MP, represents the East Midlands Division. Mr. Haynes, who was elected MP for Ashfield in the May 1979 general election has attended and spoken at NSCA Conferences and has, since his election to Parliament, declared his intention of maintaining a close interest in the Society's work and aims. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

DEREK RALPH HORNER trained as a gas engineering trainee in Harrogate, Yorkshire. Sent to Salford College of Advanced Technology on the 3-year sandwich course for gas engineers. He qualified with Hons. Degree pass in Gas Engineering. Specialised in industrial gas applications. Joined private heating company as Technical Sales Manager at branches in East Midlands, West Midlands and Yorkshire. He was involved with heating schemes for industrial, commercial and domestic operations utilising all fuels. Joined South East Gas and became Commercial Sales Manager, responsible for sale of commercial gas in South London and South East. Joined North West Gas as Commercial Manager, Central Lancs. area, responsible for sale of all gas to North Lancashire. Chartered Engineer - Member Institute Gas Engineering, Member Institute Energy, Member Institute Marketing, Member Chartered Institution of Building Services. He is involved with the North West Fuel Luncheon Club as Committee Member.



MRS. ELIZABETH JANE INGLEFIELD represents the East Midlands Division, NSCA. She was formerly Vice Chairman of Health Committee and Chairman of Housing Committee, High Peak Borough Council. She represented High Peak Borough Council on East Midlands Division, NSCA, from 1974 to 1977 and has been on the Divisional Council of that body for the past 4 years. Past Chairman of Derbyshire Advisory Council for Clean Air 1975/76, she has been an independent member of the NSCA for the past 3 years. She is on the Management Committee of the Housing Centre Trust (North West Division) and is a member of the Derbyshire Area Health Authority and a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd.

TERRY JONES, DMA, MEHA, represents the South & Mid Wales Division NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise and toxic waste disposal etc. Prior to Local Government reorganisation was employed with three other authorities. Past Chairman of Gwent Branch of the Environmental Health Officers Association. He is currently the appointed Hon. Secretary of the South & Mid Wales Division, NSCA.



JAMES R. LAMONT represents the Northern Ireland Division, NSCA. He is Honorary Secretary of the Northern Ireland Division of the Society. He was educated at the Royal Belfast Academical Institution, qualified as a Public Health Inspector in 1962, employed by Belfast County Borough and subsequently Down County Health Committee. On re-organisation of local government he was appointed Principal Public Health Inspector (Pollution Control) with Eastern Group Public Health Committee (a consortium of five district councils) and is currently Environmental Health Officer with Department of the Environment (Northern Ireland). He is a Fellow of EHOA and was a Centre Councillor of that body for ten years, past Chairman and Honorary Secretary of the Northern Ireland Centre.

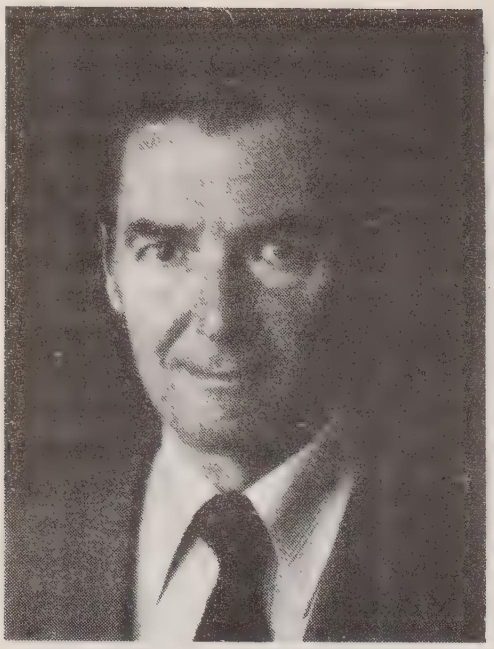
Cllr. C. LEWIS represents the South and Mid Wales Division. He is a member of the Conference and Publicity Committee and is Chairman of the Welsh Division.

IAN R. LIVERSIDGE, FRSH, MEHA, AMBIM, represents the North West Division, NSCA. As Director of Environmental Health, Bolton MBC, he is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough Council is actively pursuing a phased programme of domestic smoke control and allocates some £60,000 annually to this work. The Council is carrying out an Inner Urban Project in relation to the atmospheric heavy metals burden, to assess the impact of pollution sources and review planning strategies, and under the direction of Mr. Liversidge, operates an Industrial Liaison Committee, which seeks, with the co-operation of local industry, to evaluate and ameliorate the problems of industrial pollution. A continuous monitoring programme is undertaken in relation to a newly established major motive power battery manufacturing plant which assists in securing very high standards of control.

IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical Committee and is the President of the Scottish Division of the Society, having been a Member of the Society for some nineteen years. He was a Member of the Clean Air Council for Scotland and is a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

PATRICK McPARTLIN, CEng, MInstE, MIPlantE, MBIM, represents the Scottish Division, NSCA. He is Deputy Managing Director, NCC Rexco Ltd.

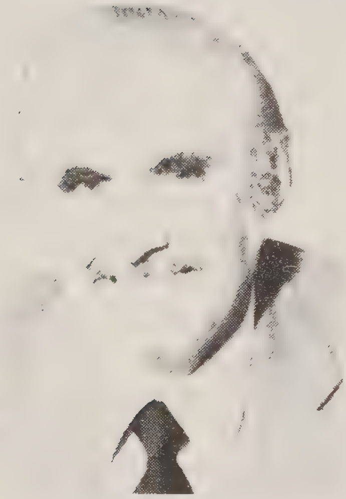
MRS. R. McLUSKY represents the Women's Gas Federation and Young Homemakers. She is a member of the Society's Conference and Publicity Committee and lives in Harrogate, Yorkshire.



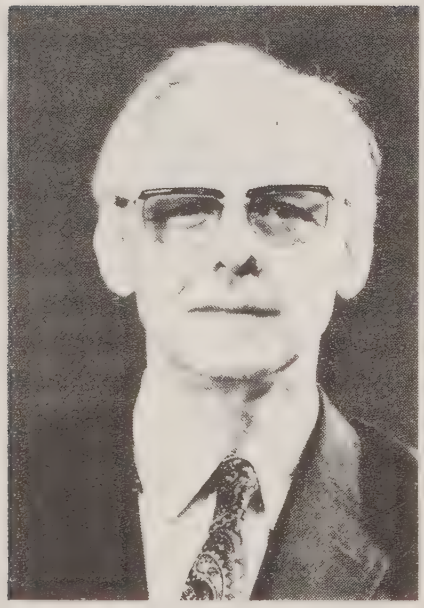
JOHN B. MARSH, FRSH, MEHO, represents the North West Division. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 21 years. He is a Member of the Royal Society of Health and a Member of the Environmental Health Officers' Association and has also been an Examiner on the Environmental Health Officers' Education Board for the last 12 years. He has been keenly interested in all forms of pollution and its prevention and has been a long standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

T. E. NASH represents the Asbestos Information Centre. He is a Science Graduate, University of Wales 1959. He served with Short Service Commission in Secretarial Branch, RAF 1959-62. From 1962-77 he worked with HM Factory Inspectorate, latterly Principal Inspector, Area South, Basingstoke. In 1977, he joined Cape Industries Ltd. as Group Health and Safety Consultant. In addition to main role of corporate planning on H & S matters, he also directs a small laboratory which performs environmental consultancy work. He is a member of Institution of Industrial Safety Officers, British Occupational Hygiene Society, RoSPA, Industry Representative on Asbestos Association, Asbestosis Research Council and CBI Safety, Health & Welfare Committee. He joined NSCA Council as AIC member in 1980.

MRS. E.M.L. NAYLOR represents the Women's Solid Fuel Council. She has been associated with the Women's Solid Fuel Council for over 21 years and is the present Chairman of the London and Southern Region W.S.F.C. Mrs. Naylor is a Member of the Royal Society of Health; Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council; Past President of United Kingdom Federation of Business and Professional Women. She is currently Area Organiser and Lecturer for J.P. Coats Ltd. in Arts and Crafts.



ROGER PANE, MInstM, represents the Low Temperature Coal Distillers Association. He is a Director of Coalite Group Ltd., and Director, British Coke Export Sales Corporation Ltd. He has been an Individual Member of the Society for many years and served as an elected representative of the East Midlands Division of the Council of the Society. He currently serves on the Parliamentary & Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.



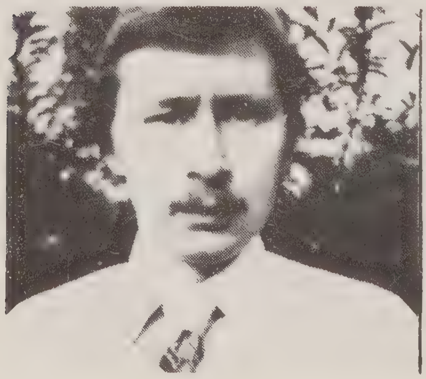
ERIC A.K. PATRICK, BSc, CEng, FRSC, FIChemE, FIGasE, SFInstE, FCIBS, represents the British Gas Corporation. He is Director of Watson House, the British Gas utilisation research station in Fulham. He was educated at Christ's Hospital, Birkbeck College and Battersea Polytechnic. He joined the Fulham Research Laboratories of the Gas Light and Coke Company in 1939 and worked in the coke group, largely on small-scale gas producers. He was transferred to the industrial laboratory at Watson House in 1945 and was in charge of the laboratory from 1952-1962. In 1962 he was appointed Research Manager. He became Research and Development Manager in 1969 and Assistant Director (Research and Development in 1970). He is Chairman of Membership Committee of the Institution of Chemical Engineers, and has also been President of the London and Southern Junior Gas Association. He was a Council Member of the Heating and Ventilating Research

Association, and its successor, from 1966-1980, being Chairman of Council from 1973-1975. He is a Member of the NSCA's Technical Committee.

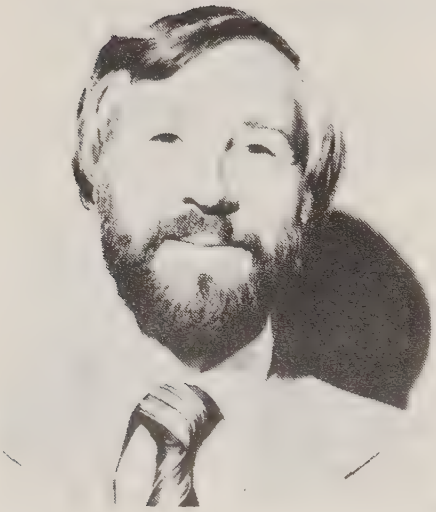
KENNETH H. PEARSON represents the Industrial Gas Cleaning Association. He is Managing Director of Sturtevant Gas Cleaning Limited.

CLLR. LEN POOLE, BEM, JP, represents the Northern Division, NSCA. He has been Chairman of the Northern Division and a Member of Council since re-organisation of local government. Also since that time he has been Deputy Chairman of the NSCA's Conference and Publicity Committee. He has been Chairman of the Environmental Health Committee, Middlesbrough BC (since re-organisation) and Chairman of the Community Health Council, South Teeside (largest in Northern Region). He has been responsible in the last few years for persuading his Council to complete its domestic Smoke Control programme by 1970 (in spite of financial cut-backs). He is Chairman of the Boroughs of Cleveland Pollution Group (Industrial Pollution).

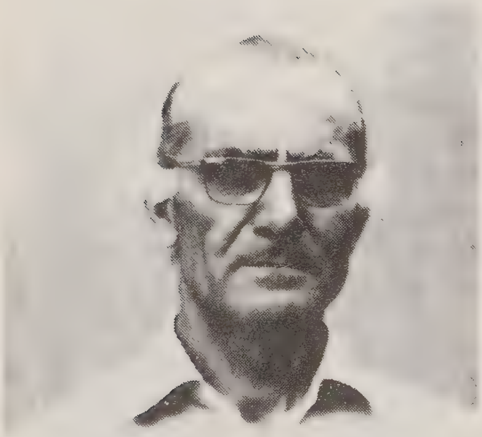
CLLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a Member of the Society's Conference and Publicity Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past thirty years and is a former employee of the Ministry of Defence.



ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. In 1978 he was elected as Honorary Secretary of London, South East and Central Southern Divisions.

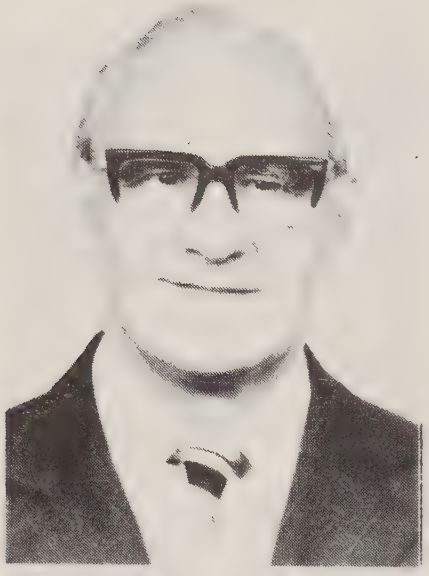


L. EWEN ROBSON, MRSH, MIOA, Associate of the Institute of Energy, represents the South West Division, NSCA. He was appointed Specialist Inspector for Atmospheric Pollution and Noise for Bristol in 1969. Since 1973 he has been the Assistant Chief Environmental Health Officer, Bristol City Council. He is a Member of the Environmental Health Officers' Association, and is on the Western Centres Technical Committee on Environmental Pollution. He is a Member of the Institute of Acoustics and has lectured extensively on both air pollution and noise topics at Bristol Polytechnic, Bristol, Southampton and Loughborough Universities. He is currently Chairman of the Bristol Water Study Group, and a past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.



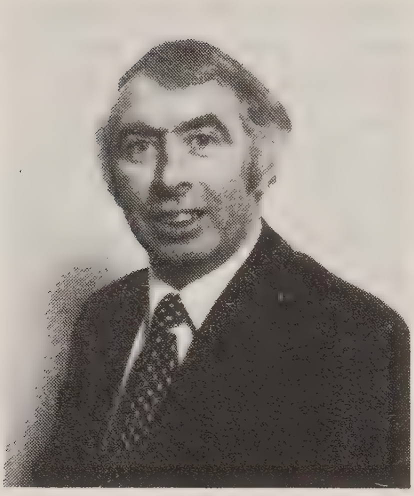
PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and SE Division, NSCA. He was Chairman of the Council of the Society 1978/79. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips; 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College in 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmospheric Environment). He has been a member of the Clean Air Council since 1968, and Chairman of its Technical Committee since its inception in 1975. He was an Alderman, London Borough of Merton (1971/78) and on the Metropolitan Water Board 1971/74.

REV. BRIAN N. SHACKLETON represents the West Midlands Division, NSCA.

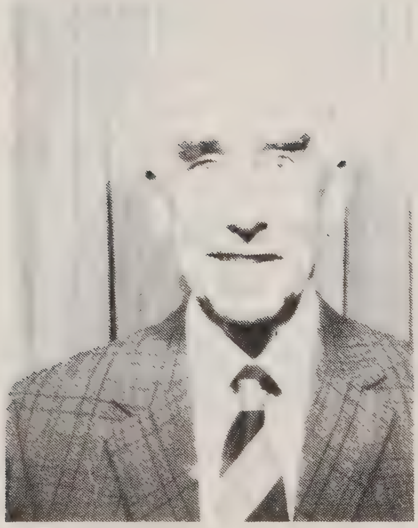


RONALD F. SHAPTER, FEHA, (Individual Member) represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He has been a Local Government representative to the Society since 1956, a Member of the Divisional Council from 1964, and was Honorary Secretary of the South East Divisional Council 1969/74. He has been Chairman of the London, South East and Central Southern Division from 1977, a Member of the Council of the Society since 1969, formerly a Member of the Conference and Publicity Committee and now a Member of the General Purposes and Finance Committee. Whilst Chief Public Health Inspector of High Wycombe he drew up and was responsible for the implementation of the programme of Smoke Control Areas and made a special study of the problems associated with the burning of wood waste in its many forms.

FRANK E. SHEPHARD, BSc, PhD, FRIC, CEng, FIGasE, represents the Institution of Gas Engineers. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. He is now a Senior Principal Scientist responsible for organic spectroscopy and inorganic analyses within the Analytical Division of London Research Station. He also has a special responsibility for outdoor environmental matters within the R&D Division of British Gas. He is a member of the Institution of Gas Engineers Environmental Studies Committee.



BILL F. SNOW, MEHA, MInstSWM, represents the North West Division, NSCA. Commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC. Appointed district Public Health Inspector to Accrington BC in 1962. Appointed Deputy Chief Public Health Inspector to Warrington RDC in 1969. Appointed to present post of Chief Environmental Health Officer to Warrington BC on 1st April, 1974. He has been interested in Air Pollution Control since the early 1960s when Accrington commenced its Smoke Control Programme. With the support of Warrington BC it is intended to complete the Council's Smoke Control Programme with the final Smoke Control Order, which is currently awaiting confirmation by the Secretary of State. Bill Snow has been a Member of the North West Divisional Council since 1976 and has served on the Council and Technical Committee of the Society since 1979.



GEORGE C. STUBBS, FEHA, represents the London & South East Division NSCA. He is a life member of the NSCA, and is a retired Divisional Public Health Inspector, having a special interest in air pollution control. He was elected to the Council of the South East Division at its first meeting, and has acted as Minute Secretary for many years. He was elected to the Council of the Society in 1961 and is a member of the Technical Committee.

TREVOR TOWNSEND, MEHA, represents the West Midlands Division and is currently Principal Environmental Health Officer (Environmental Pollution and Health and Safety) with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, in the main specialising in air pollution and noise control. He has been Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control since 1975 and lecturer for the Royal Society of Health Diploma in Air Pollution at Aston University since 1974.

ALAN TRAYNOR represents the North West Division, NSCA. For many years he has been a Member of the North West Divisional Council. From 1963 until 1974 he was Honorary Technical Officer to the South East Lancashire and North Cheshire Consultative Committee for the Investigation of Atmospheric Pollution and Noise: he is now Technical Officer to and Chairman of the Technical Advisory Committee of the Manchester Area Council for Clean Air and Noise Control; since 1966 he has been a Member of the Clean Air Council. He was formerly Chief Public Health Inspector, Droylsden UDC, then of Middleton BC. He is now Director of Environmental Health Services, Rochdale MBC.

FREDERICK ERNEST WALSH represents the London and South East Division, NSCA. He was formerly Senior Public Health Inspector of the London Borough of Hammersmith. He was a delegate to the late Smoke Abatement Society; Member of the NSCA since 1971; Vice Chairman of the London and South East Division 1978/79. He was appointed a Member of the NSCA Council in 1979.

THOMAS ERNEST ROY WARE represents the Royal Society of Health. He is the Chief Environmental Health Officer of the Borough of Watford and serves on the Council of the Royal Society of Health. He is also a member of the Institute of Environmental Science and an Officer of the Institute of Shops, Health & Safety at Work Acts Administration. Being a keen writer on both technical and general subjects, he edits the professional journal of the last named Institute and is also currently compiling a handbook on noise control for Environmental Health Officers.

ROBERT W.C. WHEATLEY represents the National Coal Board. He was born in Berwick-on-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland

Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he was appointed Technical Marketing Director. In 1978 he became Director (Administration and Technical) in which post his main responsibilities include staffing and administrative matters, the marketing aspects of coal preparation, quality control, the environment and the development of new types of solid fuel burning appliances and equipment. He has been a member of the Technical Committee of the Society since 1964 and a Member of the Council since 1966.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected the Newcastle-upon-Tyne City Council in May 1963. He is Chairman of the Health and Environment Committee and Chairman of the Hackney Carriages and Private Hire Sub-Committee. In addition, he is a Member of the Policy Resources Committee. He was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977, and now Vice Chairman in 1979 and 1980 again.

ANNUAL REPORT & ACCOUNTS

The year under review has been one of particular activitity for the Society and we have seen a number of external events with particular relevance to our interests. EEC action against pollution by sulphur dioxide and smoke was finally agreed, a careful appraisal of the public health implications of lead in the environment was published in this country, and the Government proposed wideranging changes of detail in several regulations of interest to us. Through its Committees, the Society has been able to make formal comments on these and other developments.

The event with perhaps the greatest potential significance for the Society was the Government's announced intention to abolish the Clean Air Council as part of its campaign to reduce the number of Quango's. Although the Clean Air Council is not a QUANGO but is a Statutory Body, the Government, rather high-handedly, put the Clean Air Council in a state of suspended animation pending the necessary legislation to abolish it. Protests were unavailing and the Clean Air Council has not met for over a year. The Society has decided that it must gear itself to take up many of the activities of the Clean Air Council and be in a position to pronounce on all clean air matters of national interest. Steps have already been taken to ensure that the Society is able to do so and I will make further reference to this later in this report.

Smoke control has continued to make progress in spite of the continuing difficult economic situation and the imposition of cuts in expenditure. The Society has made successful representations in a few instances where established smoke control areas were threatened with revocation. However, there is still no real sign of action on the 94 recommendations of the 5th Report of the Royal Commission on Environmental Pollution, published in January 1976; so we are still waiting.

As I mentioned at the beginning of this report, there has been forward activity in the EEC. In December last, the EEC Ministers of the Environment reached agreement on a Directive on Health Protection Standards for Sulphur Dioxide and Suspended Particulates (smoke). Announcing the agreement, our Department of the Environment said that implementation of the Directive in the UK would be achieved "mainly be extension of smoke control. In a few areas it may be necessary to introduce regulations controlling the sulphur content of fuel oil. This will involve a phased programme which will be developed in consultation with the bodies concerned".

The implementation of a previous Directive on the biological screening of the population for lead was carried out in this country during the year. We understand the results are generally encouraging, though few a few "hot spots" can be detected. In addition, in late March 1980 the Report of the DHSS Working Party on "Lead and the Environment" headed by Professor P.J. Lawther, was published. The report is not as conclusive about lead in the air as some people might have liked liked and does little to change present attitudes about lead in petrol.

Turning to our own affairs, I am pleased to say that the very welcome signs of increased activity in the Divisions, which Professor Scorer mentioned in his report to you last year, have continued and accelerated. It is particularly encouraging to see that there has been a recrudescence of activities in South Wales and we wish that Division well after a period in the doldrums.

At the Annual General Meeting in July, Sir Derek Ezra, MBE, the Chairman of the National Coal Board, was elected as President to succeed Lord Flowers, FRS. Sir Derek has already shown his great interest in the work of the Society. He presented his first Presidential Address at the Clean Air Conference at Scarborough on Wednesday, 17th October 1979. This Scarborough Conference, which had as its theme, "Weather and Air Pollution" and which has been fully reported in Volume 9 No. 6 of "Clean Air", was generally considered to have been one of the Society's most successful conferences of recent years and it is to be hoped that this tendency will continue.

Other meetings have followed the pattern which has become established in recent years. Early in April 1979 a very successful Workshop on Pollution from Road Vehicles was held at Warwick University at Coventry. This attracted much attention and interest and was very well attended, particularly by representatives of the Motor Industry. The Workshop was widely regarded as very informative and did much, I feel, to enhance the reputation of the Society as a responsible body which is prepared to listen to all sides of the argument and make judgement accordingly.

In late November, a One Day Teach-In for elected members of Local Authorities was held in London. The subject was noise. The event was reasonably well attended and created a great deal of interest. This is the second One Day Teach-In that we have now held and it seems clear that we should continue to organise these events each year, possibly in other parts of the country as well as in London.

As regards activities within the Society, the Council and its Committee have had an extremely busy year, and I would like to take this opportunity of thanking all members of Council and all members of the Society's Committees for their support and attendance. Because of Consultation Papers, staff problems and so on, it has often been necessary to call extra meetings at short notice. The response has always been good and I and the Honorary Officers are most grateful for this.

The Technical Committee continued with the finishing touches to the Society's new publication "Pollution from Road Vehicles" which it has been preparing. It has also been concerned with a detailed assessment of the emotive question of lead in petrol. I have already made mention of the Lawther Report. While this was awaited the Society had to be in a position to make pronouncements upon lead in petrol if called upon to do so, and needed an assessment of the situation. This brings me back to what I said earlier about the demise of the Clean Air Council. If the Society is to be in a position to make prouncements on subjects of national importance, then the staff must have ready access to the Chairmen of Committees and to members of Council who are in a position to offer expert advice. Under the aegis of the General Purposes and Finance Committee, steps have been taken to make this possible.

Like the Technical Committee, the Parliamentary and Local Government Committee had to deal with more than the usual quota of Consultation Papers during the year. There was, for instance, a review of the law of statutory nuisance and the offensive trades. Then the Government White Paper on Central Government Controls over Local Authorities involved the Parliamentary and Local Government Committee in much extra work and a special meeting. The eventual submission on behalf of the Society was particularly concerned about the removal of rights of appeal, and I am glad to be able to report that, partly as a result of the Society's submission, the Government have had second thoughts about these proposals and many rights of appeal have been retained.

This Committee was also responsible for presenting evidence to the Royal Commission on Environmental Pollution on "Agriculture and Pollution" when its Seventh Report was issued, and it was pleasing to see that appropriate note was taken of the Society's submissions. Another topic that concerned the Parliamentary and Local Government Committee was the continuing problem of the sale of bituminous coal in smoke control areas. A nationwide enquiry was carried out during the year to ascertain the current position and the Committee is now able to offer helpful ideas to local authorities having difficulties with this problem.

As ever, the Conference and Publicity Committee have been very active in the organisation and arrangements for the Spring Workshop, the Annual Conference and the One Day Teach-In. I have already mentioned these events, but I would like to take this opportunity of expressing the thanks of all members of the Society to the Conference and Publicity Committee for their very important work - for which they often, may I say, receive more kicks that halfpence. People are only too ready to criticise a Conference or a Workshop; they are often much slower in expressing thanks for a job well done. As regards publications, the third edition of the Member's Handbook has been issued, and 'Clean Air' in its new form has continued to be published every two months. This pattern has now become firmly established and from what we can gather, seems to have been a step in the right direction. As a new publicity venture, 'Clean Air' T-shirts are now on sale!

The General Purpose and Finance Committee has been deeply concerned with the knotty problems of finance and subscriptions in the present disturbing climate of inflation and rising prices. After considerable discussion, a suitable formula has been defined that should stem the tide for the moment, but these are problems that will demand further considerations before long. This Committee has also been involved with the question of premises, following a formal notice from the landlords. However, this matter appears to be coming to a satisfactory conclusion and I am glad to be able to say that, for the time being at any rate, it looks as though we shall continue in our present headquarters at Brighton.

Perhaps the Committee's main pre-occupation has been with the appointment of a new Secretary General to succeed Rear Admiral Sharp. Early in the year an Appointment Sub-Committee was set up and, after a preliminary selection, interviewed a short list of applicants for the post. It was unanimously decided to appoint Air Vice Marshal K. Kingshott, CBE, DFC, to succeed Admiral Sharp, and this decision was ratified by Council. Air Marshall Kingshott accepted the post and indeed attended the Scarborough Conference in October last. However, for pressing personal reasons later in the year, he found he could not take up his duties on the 1st January 1980 as previously agreed; and so it was necessary to start all over again. Accordingly, the post was re-advertised and another short list prepared. In March the Appointment Sub-Committee, having interviewed seven applicants, unanimously decided to recommend the appointment of Colonel Leslie Hudson, OBE, Royal Marines, and this was ratified by Council on 13th March last. It is expected that Colonel Hudson will attend the Bournemouth Conference as Secretary General Designate and start to take over from Admiral Sharp immediately after that time. In the meantime, Admiral Sharp has agreed to continue in post. I should like to take this opportunity of expressing the Society's heartfelt thanks to him for holding the fort in this way, and I know I can speak for all Members in doing so.

Before I leave the work of the General Purpose and Finance Committee, I must refer to a study it has started on the future role and operation of the Society. I have already made mention of the changes that are necessary if the Society is to respond effectively to current concerns and to take on at least some of the roles of the Clean Air Council. The study, which is still continuing, is being carried out with these points in mind.

The Society continues to be well represented on the Standing Conference of Co-operating Bodies of which Mr. T.H. Iddison, a former Chairman of the Council of the Society, is Chairman. We are also represented on the Council for Environmental Conservation

(CoEnCo) and are represented on Committees of the District Heating Association by the Secretary General and Professor Scorer.

The Society has continued to provide secretarial backing for the Environmental Protection Equipment Manufacturers Association (EPEMA). The Chairman of EPEMA is now Rear Admiral Sharp who succeeded Mr. Max Beaumont, the current Chairman of the Society's Technical Committee, last April.

We are, of course, a member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which the Society provides the secretariat. I was able to represent the Society at the meetings of the IUAPPA Executive Committee held in Pretoria last October and I am happy to be able to report that the Executive Committee are pleased with the way in which the Society has carried out its duties. I was also privileged to present the keynote address at the International Clean Air Conference held in Pretoria at that time.

On behalf of all members of the Society, I should like to thank all members of staff of the Society for the energetic and loyal efforts on our behalf. I should also like to pay tribute to the Honorary Secretaries of all Divisions who do so much work behind the scenes. I mentioned at the start of this report that there has been much increased activity in the Divisions. The Divisions are the backbone of the Society, but they could not carry on their functions without the devoted work of their Honorary Secretaries. We all owe them a great deal of gratitude.

Before concluding, it is with sadness that I have to remind you of the deaths of Mr. Philip Draper, and more recently, of Dr. Albert Parker. Both were among the Society's most stalwart members for many years. We shall miss their wise counsel but are grateful for the tremendous contribution that they were able to make over the years to the work of the Society.

Finally, in wishing my successor's a successful term of office, may I say how much I have enjoyed being your Chairman, which I have counted a privilege.

H.I. Fuller
Chairman of Council

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee - Incorporated January 1, 1958)

BALANCE SHEET — 31st March 1980

	Notes	31.3.80 £	31.3.80 £	31.3.79 £	31.3.79 £
FIXED ASSETS					
OFFICE FURNITURE AND EQUIPMENT					
As valued by the Secretary General as at 1.4.72	3	1910		1910	
Additions at Cost (1979/80 - £2895)		10375		7480	
		12285		9390	
Less Depreciation (over 5 years)		8596	3689	7510	1880
LIBRARY BOOKS					
At Nominal Value			100		100
			3789		1980
INVESTMENTS AT COST	4				
Fixed Interest Stocks		3270		3270	
Ordinary Shares		10426	13696	10426	13696
CURRENT ASSETS					
Stock of Publications at Secretary General's Valuation		1430		1325	
Sundry Debtors		5340		2251	
Prepayments		255		63	
Bank Balances		46693		32810	
Cash in Hand		93		38	
Funds held by Divisions		933		989	
		54744		37476	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		12124		5599	
Net Current Assets			42620		31877
NATIONAL POSTER COMPETITION PROVISION	6		(2500)		-
NET ASSETS			£57605		£47553
Represented by:					
GENERAL FUND					
Balance at start of year			39475		27860
Surplus for the year			4552		11615
Balance at end of year			44027		39475
PREMISES FUND			13578		8078
			£57605		£47553

R.A.W. HOLLINGDALE - Honorary Treasurer
P.G. SHARP - Secretary General

INCOME AND EXPENDITURE ACCOUNT for the year ended 31st March 1980

		31.3.80		31.3.79	
INCOME	Notes	£	£	£	£
SUBSCRIPTIONS AND DONATIONS			37202		34157
CONFERENCE – Scarborough 79/80					
Brighton 78/79					
Income		12940		11761	
Expenses	5	8486		7862	
			4454		3899
SEMINAR – Warwick 79/80					
Bristol 78/79					
Income		5289		3409	
Expenses	5	5024	265	4005	(596)
ONE DAY TEACH-IN					
Income		612		603	
Expenses		753		463	
			(141)		140
SALES OF PUBLICATIONS			4753		5942
INVESTMENT INCOME					
Dividends (Gross)		2277		2017	
Interest		5092	7369	2582	4599
			53902		48141
EXPENSES					
RUNNING COSTS					
Salaries and Wages including N.I.C.		29414		30299	
Less: Recharged to Conference and Seminar		5883		6060	
		23531		24239	
Staff Life Assurance Scheme		153		153	
Rent, Rates, Light and Heat		2829		2534	
Insurance, Travel, Cleaning and General Expenses		10845		6816	
Depreciation: Office Furniture and Equipment	2	1086		662	
Stationery/Supplies		1365		1005	
Provision for Doubtful Debts		271		568	
		40080		35977	
Less contributions to expenses from IUAPPA and EPEMA		5950		5910	
		34130		30067	
CLEAN AIR AND MEMBERS' HANDBOOK					
Printing, Postage, etc.		6055		5545	
Less Advertising Receipts		2102		1482	
		3953		4063	
INFORMATION, PUBLICITY SERVICES AND COST OF PUBLICATIONS		2234		1641	
DIVISIONAL EXPENSES		1033		755	
		3267		2396	
PROVISION FOR NATIONAL POSTER COMPETITION		2500	43850	-	36526
SURPLUS FOR YEAR			10052		11615
TRANSFER TO PREMISES FUND			5500		-
SURPLUS TRANSFERRED TO GENERAL FUND			£4552		£11615

NOTES TO THE ACCOUNTS 31st MARCH 1980

1. Change in Accounting Policy:
With effect from 1 April 1979 the Society has changed its policy of accounting for Subscriptions and Donations. Henceforward Subscriptions and Donations due but not received in any year will not be included in the Accounts. Subscriptions and Donations due for 1979/80 but not received in the year amounted to £1,528.

2. Lease:
The lease on the Society's Brighton offices expired on 14th November 1979. The Society has continued to occupy the premises and as the charge in the Accounts for rent does not provide for any increase since that date, a transfer of £5,500 has been made to the Premises Fund. This fund is also available to provide for any repairs required under the terms of the lease, for which no other provision has been made.

3. Office Furniture and Equipment:
Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and were included in the Accounts at this figure. Subsequent purchases are being written off over 5 years.

4. Investments:
The market value of the Society's Investments as at 31.3.80 was £23454
31.3.79 was £25457

Decrease £2003

5. Salaries and Wages Recharge:
The expenses of the Conference and Seminar include 20 per cent of salaries apportioned in the estimated ratio of the numbers attending the functions as follows:

	1979/80		1978/79
Conference - Scarborough	4249	Conference - Brighton	4500
Seminar - Warwick	1634	Seminar - Bristol	1560
	£5883		£6060

6. National Poster Competition:
The provision represents funds transferred to provide for expenditure authorised on the National Poster Competition.

REPORT OF THE AUDITORS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have examined the Balance Sheet and annexed Income and Expenditure Account which have been prepared under the historical cost convention. In our opinion the Accounts comply with the Companies Acts, 1948 and 1967 and give a true and fair view of the state of the Society's affairs at 31 March 1980 and of its surplus for the year ended on that date.

6 June 1980

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

City Gate House
39/45 Finsbury Square
London EC2A 1AE

DIVISIONAL MEMBERSHIP & REPORTS

DIVISION 1

SCOTTISH DIVISION
President: I. MacPherson
Hon. Secretary and Treasurer: F.J. Feeley

Following discussion at various meetings the Division has agreed to pursue the implementation of proposals for the licensing of coal merchants in Scotland. This has the backing of the Council of the Society, which agreed that such licensing was the only satisfactory way of dealing with the situation in Scotland.

On June 2nd and 3rd 1980 the Division organised a Seminar at the Dunblane Hydro, which was well attended by delegates from all parts of Scotland. Papers were presented on a variety of topics, and a full report on the seminar, together with summaries of the papers, was published in Clean Air, Vol. 10, No. 4.

F.J. Feeley,
Hon. Secretary.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Aberdeen, City of
British Steel Corporation
(Scottish Division)
Edinburgh, City of
Glasgow, City of
National Coal Board
South of Scotland Electricity
Board
The Scottish Gas Board

LOCAL AUTHORITY MEMBERS

Clydebank District Council
Dundee, City of
Hamilton District Council
Inverclyde District Council
Inverness District Council
Monklands District Council
Motherwell District Council
Renfrew District Council
Stirling District Council

CORPORATE MEMBERS

Greater Glasgow Health Board
Lothian Health Board
Scottish Rexco Ltd.
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr.W.R.
Christie, J.H.
Dunlop, W.A.
Foreman, J.
Hally, J.
Jackson, J.
MacPherson, I.
McGhie, J.R.
Ramsey, Captain E.C.

DIVISION 2

NORTHERN IRELAND DIVISION

Chairman:R. Campbell Brown
Hon. Secretary: J.R. Lamont

No report was received from the Division.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Belfast, City of

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council
Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPORATE MEMBERS

Eastern Health & Social Services Board

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Brindley, D.
Burke, V.I.
Cave, S.A.
Hanna, B.P.
McLaughlin, D.F.

DIVISION 3

NORTHERN DIVISION

Chairman: Cllr. L. Poole
Hon. Secretary: C. R. Cresswell

Forty four members attended the Annual General Meeting which took place in Newcastle upon Tyne on 27th June 1980. The Chairman, Vice Chairmen and Secretary and Divisional Representative to the Council were all returned unopposed.

The Secretary General attended the meeting and gave a brief review of the activities of the Society. Looking forward to 1981 when the Spring Seminar will be held in Newcastle, he hoped that it would be as successful as the one held in the city in 1975.

The speaker was Dr. David Storey of the Centre for Environmental Studies and his talk on 'The Economics of Water Quality with reference to the Tees Estuary', was well received.

Earlier in the year well attended meetings were held in North Tyneside and Sunderland and reports of these meetings were published in 'Clean Air'. Only one meeting of the Divisional Council was necessary as it has been found possible to discuss essential business at meetings of the Division. Consideration is being given to finding the best way in which the Division can carry on the functions which were previously the responsibility of the Joint Clean Air Committee for the North East.

Membership has remained fairly static during the year with the normal few changes in individual membership.

C. R. Cresswell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Teesside Division)
Central Electricity Generating Board (North Eastern Region)
Middlesborough Borough Council
National Coal Board
Newcastle Upon Tyne, City of
Northern Gas Board
Sunderland Borough Council

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow in Furness Borough Council
Blyth Valley Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Wansbeck District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (Northern Region)
Nailsea Engineering Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Calvert, Mrs.M.R.
Carr, W.
Cayton, S.
Chambers, A.
Eve, Mrs.M.E.
Graham, J.V.
Issac, Prof.P.C.G.
Mair, L.
Reece, R.
Sugden, F.G.
Wilkinson, J.R.

DIVISION 4

NORTH WEST DIVISION

Chairman: J.R. Teale
Hon. Secretary: J.B. Douglas

In July 1979 Mr. W.E. Pollitt resigned as Honorary Secretary of the Division after sixteen years of outstanding service. At the meeting of the Divisionsl Council held at MANWEB on 17th July, Mr. Pollitt received the grateful thanks of the Division for all his efforts both at divisional level and on the Council of the Society. In turn, Mr. Pollitt thanked all members of the Division for their support during his term of office. Mr. J.B. Douglas was appointed to succeed Mr. Pollitt.

In 1979 and 1980 the Division organised an Essay Competition, a project requiring months of hard work. The aim was to get young people to think about clean air and its implications. Sponsorship for the competition was provided by the Merseyside and North Wales Electricity Board, the North West Electricity Board, North West Gas, the Central Electricity Generating Board and the National Coal Board. The Electricity industries also assisted with the printing of publicity material. The judges, Mr. W. Pollitt, Cllr. Mrs. A. Burdon and Mr. W. Eckersley awarded two main prizes and consolation prizes to eight runners-up. The presentations were made by the Mayor of Oldham, Cllr. J. Campbell, at the Division's Annual General Meeting on July 11th, 1980. A full report appeared in Clean Air, Vol. 10, No. 4, together with one of the prizewinning essays.

J.B. Douglas,
Hon. Secretary.

MEMBERSHIP LIST

SUSTAINING MEMBERSHIP

Bolton Borough Council
Burnley Borough Council
Central Electricity Generating Board (North West Region)
Cheshire County Council
Liverpool, City of
Manchester, City of
National Coal Board
North West Gas Board
Salford Metropolitan District Council
Sefton Metropolitan District Council
Shell Chemicals Ltd.
Stockport Metropolitan Borough Council
Warrington Borough Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bury Metropolitan Borough Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Council
Halton District Council
Hyndburn District Council
Knowsley Metropolitan Borough Council
Macclesfield District Council
Oldham Metropolitan Borough Council
Pendle District Council
Ribble Valley Borough Council
Rochdale Metropolitan District Council
Rossendale Borough Council
South Ribble Borough Council
St.Helens District Council
Tameside Metropolitan District Council
Trafford Borough Council
West Lancashire District Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (North West Region)
Greater Manchester Council for Clean Air & Noise Control
Sutcliffe Speakman & Co. Ltd.
The Woolton Society

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Artis, Mrs.D.
Cain, J.
Cass, H.V.
Christian, F.V.
Clusky, H.
Collins, D.H.
Cook, Miss H.M.
Evans, T.
Fallows, W.B.
Franklin, E.J.
Franklin, N.J.
Frazer, I.M.
Gee, Mrs.J.
Gee, J.
Hall, A.
Hayhurst, H.
Hayhurst, Mrs.K.M.
Hendy, Dr.B.
Horton, P.H.
Hollingdale, R.A.W.
Hough, D.A.
Jewsbury, S.
Kennedy, M.A.
Kitchener, Earl.
Lloyd, A.
Lowe, T.H.
Mather, Sir William
McGauley, H.J.
Mercer, I.G.
Parsonage, H.
Pollitt, W.E.
Richards, J.E.
Shaw, Mrs. M.
Smith, D.
Stanyard, R.J.
Taylor, A.
Thomas, F.L.
Vanstone, H.B.
Winder, F.
Yates, C.J.

DIVISION 5

YORKSHIRE & HUMBERSIDE

Chairman: J. Rooke
Hon. Secretary: W. B. Twyford

During the past year there have been three meetings of the Division and Divisional Council as set out below:-

DIVISIONAL COUNCIL

24th September, 1979	Barnsley
7th December, 1979	Leeds
18th March, 1980	Hull

OPEN MEETINGS

24th September, 1979	South Yorkshire County Council, Incineration Plant, Sheffield
7th December, 1979	Imperial Metals, Leeds
18th March, 1980	B.P. Chemicals, Hull

The 46th Annual Conference of the Society was held in Scarborough and was attended by many members of the Division.

I have commented in previous years on the need for increased support for the Society and I make no apology for returning to the theme. In many ways the Society nationally is at a cross-roads. We will shortly be losing the services of a well respected Secretary General, and the loss of Admiral Sharp is going to be hard to sustain. There is inevitably going to be a settling in period during which the new Secretary General is going to have to earn the acceptance and respect of Government Departments, I.U.A.P.P.A. and other organisations.

At the same time the effects of inflation and the Government's financial restrictions are beginning to bring severe pressures to bear on the Society's affairs. Inflation means increased subscriptions which the financial restrictions make it more difficult to find and this leads to resignations. So the circle continues. The only real answer to the problem is to try and increase membership of the Society, and to do this would-be members have got to be convinced that the Society has something to offer them.

The opportunity to prove the value of the Society has suddenly taken on a new aspect with the demise of the Clean Air Council. Hitherto the Clean Air Council has been the body to which the Government and other influential bodies have turned for impartial and considered opinions. The Society is the only national organisation which can plug the gap without professional, industrial or commercial bias. The chance really to establish ourselves is here; it is for us to grasp it.

At Divisional level, I, and the Council, are aware that the present method of operating works in favour of the Divisional Council and to the detriment of the ordinary member. In an attempt to remedy this it is proposed to include in the agenda for future open meetings reports by both Executive and Divisional Councillors. It is hoped that this will be a first step towards involving all members more closely in the work of the Society.

Attendance at our meetings remains disappointingly low. This causes me, as Secretary, acute embarrassment when companies have been kind enough to offer their facilities to us and makes it impossible to ask many eminent speakers to address us.

The remedy to these ills lies in the hands of every member. Every local authority is entitled to appoint four representatives and a similar scale operates for industrial and commercial members. The attendance of one or two representatives from each member at our meetings would put a completely different complexion on the picture. Similarly, if we as a Society are to succeed the Clean Air Council there must be a full and frank interchange of information of all kinds between members, division and the executive. When we have achieved these aims, it will be far easier to persuade non member authorities and organisations to join us. It would then really be to their advantage.

May I sum up this message as follows:-

(1) Persuade your organisation to continue its membership of the Society.
(2) Persuade your colleagues to join you in attending meetings.
(3) Use your influence to persuade other local authorities, firms and individuals to join the Society.
(4) Let me know what you would like to see the Society doing, both locally and nationally so that your ideas can be put forward.

Finally, may I express my thanks to the Divisional Council and those members who regularly attend our meetings for their continued support.

W. B. Twyford
Honorary Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bradford Metropolitan Borough Council
British Steel Corporation - Sheffield Division
British Steel Corporation - Scunthorpe Division
Central Electricity Generating Board
Doncaster Metropolitan Borough Council

Kingston Upon Hull, City of
Kirklees, Metropolitan Borough Council
Leeds, City of
National Coal Board
North Eastern Gas Board
Sheffield, City of
South Yorkshire County Council
Wakefield Metropolitan Borough Council
West Yorkshire County Council

LOCAL AUTHORITY MEMBERS

Barnsley Borough Council
Calderdale Metropolitan Borough Council
Cleethorpes District Council
Grimsby Borough Council
Harrogate Borough Council
Rotherham Borough Council
Scarborough Borough Council
Scunthorpe Borough Council
Selby District Council
York, City of

CORPORATE MEMBERS

British Acheson Electrodes Ltd.
John Thurley Ltd.,
Universal Machinery & Services Ltd.

Yorkshire & Humberside Pollution Advisory Council

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Barnes, P.E.D.
Bell, T.R.H.
Clarke Dr.A.G.
Etherington, H.
Fitzpatrick, Miss C.
Gittins, M.J.
Hackney, E.S.
Hutton, Dr.K.
Leadbeater, Dr.B.
Lewis, A.J.
McLaughlin, D.F.
Millar, Dr.J.E.
Norton, J.
Perry, A.W.
Reynolds, F.
Saword, A.C.
Scott, J.A.
Store, N.J.
Taylor, G.
Tomlinson, E.S.
Wakefield, D.J.
Wraith, M.D.
Wright, R.A.

DIVISION 6

WEST MIDLANDS DIVISION
Chairman: Cllr. G.T. Randall
Hon. Secretary: Mrs. K.J. Sulway

Two meetings were held in the West Midlands Division during the last twelve months. A seminar at West Bromwich Town Hall in April attracted not only members but also town planners and engineers of member authorities as the afternoon subject was the Redevelopment of Contaminated Land, by M.A. Smith of the Directorate on Environmental Pollution (Dept. of the Environment). The morning session was taken up with a paper by Dr. A.C. Turner of the Warren Spring Laboratory, entitled 'Monitoring of Heavy Metals in the Atmosphere'. He spoke with particular reference to environmental lead. The interest in these topics was demonstrated by a large attendance. Details of the meeting were reported in Clean Air, Vol. 10, No. 3.

The Annual General Meeting of the Division was held at the University of Aston in Birmingham in June and twenty-two members attended. Following the formal proceedings, members heard two papers from staff of the University's JURUE (Joint Unit for Research on the Urban Environment) on the subject of Traffic Pollution in Shopping streets. This has also been reported in Clean Air.

K.J. Sulway,
Hon. Secretary.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Birmingham, City of
Coventry, Metropolitan District Council
Dudley Metropolitan Borough Council
National Coal Board
Sandwell Metropolitan Borough Council
Stoke-on-Trent, City of
Walsall Metropolitan Borough Council
West Midlands Gas Board
Wolverhampton Metropolitan Borough Council
Wrekin, District Council

LOCAL AUTHORITY MEMBERS

Hereford, City of
Newcastle Under Lyme Borough Council
North Warwickshire Borough Council
Nuneaton Borough Council
Redditch District Council
Rugby Borough Council
South Staffordshire District Council
Stafford Borough Council
Tamworth Borough Council
Warwick District Council
Worcester, City of
Wyre Forest District Council

CORPORATE MEMBERS

The University of Aston in Birmingham
Guest Keen & Nettlefords Ltd.
Lodge-Cottrell Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS STUDENT MEMBERS.

Busby, H.G.T.
Cockerham, Dr.R.G.
Cox, Mrs.J.
Fisher, M.J.
Gillett, J.A.
Grimmett, P.H.G.
Hawksley, P.G.W.
James, E.N.
James, R.F.
Longley, J.C.
Lowbridge, H.E.T.
McNulty, M.F.J.
Newill, P.P.
Roberts, R.E.J.
Sulway, Mrs.K.J.
Taylor, C.B.

DIVISION 7

EAST MIDLANDS DIVISION

DIVISION 8

EASTERN DIVISION

Chairman: Cllr. J. W. Hall
Hon. Secretary: E. F. Raven

There has been no loss of enthusiasm or momentum in the East Midlands Division during the year and attendance at Divisional Meetings has increased.

The Divisional Council has continued to meet at the Newark Council Offices at Kelham Hall and there have been three meetings during the year. Our discussions have included pollution and EEC standards, the sale of coal in smoke control areas, lead levels in indoor firing ranges, possible amendments to the list of Scheduled Works and Noxious or Offensive Gases, the proposed new memorandum on chimney heights and of course the arrangements for the various meetings of the Division throughout the year.

The Division has also met on three occasions. In September 1979, we met in Peterborough at the Great Northern Hotel as guests of the British Gas Corporation Production and Supply Division. The morning was devoted to papers on problems of noise control in relation to gas installations, following which we were entertained to lunch by the British Gas Corporation. In the afternoon, 40 members were able to visit a nearby compressor station, whilst the remainder saw films concerning noise control measures in the various installations.

Our Spring 1980 meeting took place at the National Coal Board's Training Centre at Grassmoor in April, and the day commenced with a paper by Mr. D. Stringer, Deputy Chief Mining Engineer on the "Environmental Impact of the Coal Industry in North Derbyshire". After lunch by kind invitation of the National Coal Board, one party went on underground visits and another on surface visits at local collieries.

The 1980 Annual Meeting was held at Chesterfield Town Hall on 19th June 1980. A Civic Welcome was extended by the Mayor (Cllr. S. Meakin). At the business meeting the retiring Chairman, Mr. J. B. Brackenbury, Chief Environmental Health Officer of Chesterfield, installed his successor, Cllr. J. W. Hall of the City of Peterborough. Mr. C. W. Stacey, DFC, Chief Environmental Health Officer of the City of Leicester, became Vice Chairman. Councillor Mrs. Townroe of Mansfield was congratulated on being awarded the MBE in the recent Birthday Honours.

E. F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Steel Corporation (Chemicals Division)
British Steel Corporation (Tubes Division)
Central Electricity Generating Board-Midlands Region
Coalite & Chemical Products Ltd.
East Midlands Gas
Leicester, City of
National Carbonising Co. Ltd.
National Coal Board
Nottingham, City of
Rolls-Royce Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston District Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash District Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak District Council
Hinckley & Bosworth District Council
Huntingdon District Council
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
Wellingborough District Council
West Derbyshire District Council

CORPORATE MEMBERS

Loughborough University of Technology
Low Temperature Coal Distillers Association of Great Britain Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Brown, J.A.
Catlow, J.
Davies, D.
Drabble, G.
Ffowcs William Professor J.E.
Fleming, I.
Hall, J.E.
Haynes, F.
Hunt, Dr.J.C.R.
Inglefield, Mrs.E.J.
Lusty, V.
Richards, Dr. J.M.
Riley, R.V.
Robinson, A. Lister
Romaine, D.R.
Stewart, Mrs.E.E.
Turner, Miss H.E.
Turner, T. Henry
Vulliamy, N.M.E.
Walker, Dr. A.W.
Waring, F.L.
Weldon, G.M.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Basildon District Council

LOCAL AUTHORITY MEMBERS

Braintree District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich, City of
Southend-on-Sea Borough Council
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Co. Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Amery, A.J.T.
Dobson, P.F.
Fisher, J.G.
Goodfellow, J.
Parsons, E.
Stephenson, Dr.R.J.
Wade, J.T.
Walker, N.P.
Wraith, M.D.

DIVISION 9

LONDON & SOUTH EAST DIVISION

DIVISION 10

CENTRAL SOUTHERN DIVISION
Chairman: R. F. Shapter
Hon. Secretary: A. J. Rees

One visit was held during the year to A.E.R.E. Harwell. The response to the notice of the first visit for several years was encouraging for future visits which it is hoped to arrange. While no more than a brief outline of the varying aspects of the establishment's undertakings could be viewed, it proved a most absorbing and illuminating afternoon.

At the Annual General Meeting (which took place at Imperial College, London) Mr. R. F. Shapter was re-elected as Chairman; the remaining officers were also unchanged. A special tribute was made to Mr. George Stubbs, the joint divisions' honorary minute secretary since the inception of the division over twenty five years ago.

At the conclusion of the business, the assembly was treated to an excellent presentation from Professor R. S. Scorer on meteorology and air pollution.

His talk was illustrated by some exceptional slides which elaborated on his theme of the last year's conference. The members attending the meeting left with much food for thought having received some very interesting information.

A. J. Rees
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
British Gas Corporation
British Petroleum Co. Ltd.
B.P.Oil Ltd.
British Steel Corporation
Bromley, London Borough of
Central Electricity Generating Board
Coal Merchants Federation of Great Britian
Courtaulds Ltd.
Ealing, London Borough of
Eastern Gas Board
Enfield, London Borough of
Environmental Protection Equipment Manufacturers Association
Esso Petroleum Co. Ltd.
Greater London Council
Imperial Chemical Industries Ltd.
Industrial Gas Cleaning Association
Institute of Petroleum
Lambeth, London Borough of
London, Corporation of
Mobil Oil Co. Ltd.
National Coal Board
North Thames Gas Board
Shell International Petroleum Co. Ltd.
Shell U.K. Oil Ltd.
South Eastern Gas Board
Texaco Ltd.
Tower Hamlets, London Borough of
Wandsworth, London Borough of

LOCAL AUTHORITY MEMBERS

Adur District Council
Ashford Borough Council
Broxbourne Borough Council
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford District Council
Dover District Council
Eastbourne Borough Council
Elmbridge District Council
Epsom & Ewell Borough Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hillingdon, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, London Borough of
Kingston Upon Thames, London Borough of
Lewes District Council
Lewisham, London Borough of
Medway Borough Council
Merton, London Borough of
Redbridge, London Borough of
Reigate & Banstead Borough Council
Richmond Upon Thames, London Borough of
Southwark, London Borough of
Surrey Heath District Council
Sutton, London Borough of
Watford Borough Council
Waverley Borough Council
Welwyn Hatfield Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Advance Linen Services Ltd.
Asbestos Information Centre

Atkins, W.S. Group Ltd.
Babcock Power Ltd.
Blue Circle Industries Ltd.
British Independent Steel Producers Association
Brookway Engineers Ltd.
Caltex (U.K.) Ltd.
Cleerburn Ltd.
Confederation of British Road Passenger Transport
Environmental Health Officers Association
Fläkt Ltd.
Flaregas Engineering Ltd.
Guinness, A.& Son Co.(Park Royal) Ltd.
Institution of Gas Engineers, The
London Transport
McCrone Research Institute Ltd.
North East Surrey College of Technology
Nutfield Marsh Protection Association
Royal Society of Health
Seltec, South East London College
Solid Smokeless Fuels Federation
Sumner, G & Partners
Tottenham College of Technology
Women's Solid Fuel Council
Women's Gas Federation and Young Homemakers

INDIVIDUAL MEMBERS,LIFE MEMBERS, STUDENT MEMBERS.

Ades, T.R.
Barnes, K.
Beaumont, M.
Bevington, C.F.P.
Bond, Professor G.G.
Bradshaw, N.F.
Brown, H.
Brown, T.J.
Buist, Commander C.
Butler, J.W
Carter, Dr.J.S.
Chandler, T.J.
Chatfield, A.J.
Clancey, J.
Coker, W.G.
Colville, Lt.Com.R.F.
Colonnese, Miss F.M.
Comer, P.J.
Courtier, G.B.
Craxford, Dr.S.R.
Crumpler, K.A.R.
Davis, R.F.
Day, M.R.
Driver, Capt. A.C.
Duncalf, R.
East, R.G.
Eaton, Dr.F.J.
Ellis, P.T.A.
Elsworth, Mrs.F.S.
Fisher, A.H.
Forrester, Dr.C.
Gandy, Miss R.L.
Garland, G.E.
Garland, P.
George, Miss M.
Gillett, I.
Gimpel, Mrs. C.
Goldsmith, A.
Grant, P.M.
Greenhead, S.
Hamilton, Dr.P.M.
Held, P.E.J.
Henson, C.G.
Hirschler, M.M.
Hunt, J.R.J.
How, M.D.
Iddison, T.H.
Jackman, F.A.
James, B.W.
Jellis, F.
Langwell, W.H.
Lees, B.
Lord, D.G.
Marsdin, R.
Maynard, M.J.G.
McQuillan, L.
Menuhin, Yehudi
Monkhouse, Dr.A.C.
Moores, A.R.
Mowle, C.R.
Osmand, A.
Perkins, P.R.
Phillips, H.J.
Putnam, R.V.
Raggett, G.
Rayson, H.
Rice, A.P.
Rosling, Miss E.M.
Scorer, Professor R.S.

Scott, J.S.
Sehter, L.
Sharpe, D.F.
Shillito, D.E.
Strange, R.C.
Stubbs, G.C.
Sullivan, J.S.
Thorns, J.E.
Todd, G.F.
Tomi, D.T.
Train, Dr.D.
Turner, D.W.
Turner, Dr. W.C.
Vine, Mr. & Mrs. G.M.
Watson, Professor H.E.
Wermann, J.C.
Wigan, H.N.
Wooldridge, K.G.W.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Southern Gas Board
Highbury College of Technology
Metal Box Ltd.

LOCAL AUTHORITY MEMBERS

Aylesbury Vale District Council
Bracknell District Council
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Slough Borough Council
Southampton, City of
South Bedfordshire District Council
South Oxfordshire District Council
Vale of Whitehorse District Council
Wycombe Borough Council

CORPORATE MEMBERS

Atomic Energy Research Establishment

INDIVIDUAL MEMBERS,LIFE MEMBERS
STUDENT MEMBERS.

Armstrong, F.W.
Bartlam, J.N.
Billington, N.J.
Bradbury-Williams, J.C.
Bridgen, R.F.
Bryant, Miss P.M.
Cowling, D.W.
Dugdale, Mrs.B.
Jones, Dr.L.H.P.
McPherson, N.
Nevard, L.
Parry, M.
Scotson, D.A.
Shapter, R.F.
Slater, Dr.D.H.
Stallard, J.N.
Tagg, J.R.
Verdin, A.

DIVISION 11

SOUTH WEST DIVISION
Chairman: D. J. Barnett
Hon. Secretary: H. R. Nowell

The first of three meetings held during the year was at the Westbury Works of Blue Circle Cement and was attended by twenty members. Following business, members toured the plant and were able to observe the unique process developed at Westbury which utilised pulverised refuse in the production of cement.

Nineteen members attended a meeting at the I.C.I. Brixham Laboratory in March and were given a most interesting insight into marine pollution research.

The annual general meeting was held at the regional headquarters of C.E.G.B., Bristol on 17th June. Twenty members attended and elected Don Barnett to serve a further year as Chairman. The posts of Vice Chairman and Divisional Representative on the Council vacated on the death of Philip Draper were filled by Ken Aston and Hilton Dawson. As many Society members are aware, Philip Draper worked enthusiastically and energetically on their behalf for many years and his presence will be sadly missed.

The South West Division broke fresh ice in producing its own discussion paper on the Future of the Society, which it hoped would stimulate debate and decision with a view to establishing the Society as an influential and effective national body on all forms of environmental pollution. Additionally this Division is determined not to take an insular approach but to discuss topics of common interest with other organisations and with this in mind it is hoped in the near future to arrange a seminar with the Institute of Physics.

H. R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Bristol, City of
Central Electricity Generating Board (South West Region)
National Coal Board
Plymouth, City of
Poole Borough Council
South Western Gas Board

LOCAL AUTHORITY MEMBERS

Bath, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Stroud District Council
Taunton Deane District Council
Teign Bridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.
Englehard Sales Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Baxter, T.
Capper, A.J.

Colehan, J.E.
Edwick, B.H.
Garrigar, O.L.
Hannabuss, G.
Hebblethwaite, C.
Lane, Dr.J.J.
Merrick, R.J.
Parker Dr.R.A.
Parry, J.R.
Price, B.
Redston, R.V.
Travers, I.D.
Upton, B.C.
Watkins, E.R.

DIVISION 12

SOUTH & MID WALES DIVISION
Chairman: Cllr. C. Lewis
Hon. Secretary: T. Jones

During the past year three general meetings have been held and it is pleasing to note that interest and attendance is increasing.

The first meeting was coupled with a visit to the Aberthaw and Bristol Channel Cement Company Ltd., Barry. The opening address was presented by Sir Maynard Janner (Chairman of the Company) followed by a detailed talk on the process by Mr. R. Elward (Works Manager) and Mr. R. Perriman (District Alkali Inspector).

The second meeting involved a visit to the B.P. Oil Company, Llandarcy. Mr. W. L. Lowden (Head of the Environmental Department for the Works) gave an introductory talk, and later a guided tour of the plant.

On 6th June 1980, the Annual General Meeting was held at the Guildhall, Swansea. After the election of Officers and presentation of the Secretary's report etc., Professor P. J. Lawther addressed the Members on Pollution from Road Vehicles. This presentation was very well received by the Members and Professor Lawther was able to make many references to the recently published D.H.S.S. report on Lead and Health.

After lunch, Rear Admiral P. G. Sharp addressed the meeting on the future aims and objectives of the Society and recounted his experience as Secretary General over the years.

It has been the practice for Divisional Council Meetings to be held prior to General Meetings of the Division. Amongst matters discussed during the year have been - demise of the Clean Air Council, increase in subscriptions, 1980 Conference, holding of a seminar, review of Central Government Controls over local authorities, review of the Law relating to Nuisance and Offensive Trades, joint visit with the Western Division and representation of the Division at Annual Conference.

The next meeting of the Division will be held on 5th September 1980 which will take the form of a one day Seminar entitled "Clean Air for the 1980s".

T. Jones
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Cardiff, City of
Mid Glamorgan County Council
National Coal Board
Wales Gas Board
West Glamorgan County Council
Swansea, City of
Torfaen Borough Council
Vale of Glamorgan Borough Council

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cynon Valley District Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council

CORPORATE MEMBERS

South Glamorgan Institute of Higher Education
Swansea Port Health Authority

INDIVIDUAL MEMBERS, LIFE MEMBERS, STUDENT MEMBERS.

Dearden, J.
Griffiths, D.A.
Harrop-Griffiths, H.
Heard, M.J.
Perriman, R.J.
Taylor, B.C.
Thayer, J.M.

SMOKE CONTROL AREAS

Programmes and Progress

The following lists contain the names of the new local authority areas as of April 1st 1974. Due to the local reorganisation in certain parts of the country, and the recent financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1980 and some authorities' figures will have changed since that date. Figures underlined indicate completed programmes. The new British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

Note: susp. = (programme) suspended; n/k = not known; * = 1979 figures; ur = under review; c. = about; xld = cancelled; comp. = completed.

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
	NORTHERN			
Allerdale DC (Cumbria)	-	7,000	2,228	2,820
Blyth Valley DC (Northumberland)	1989	17,649	2,012	7,014
Carlisle City (Cumbria)				
Castle Morpeth(B)(Northumberland)	1983	2,173	819	1,227
Darlington(B) (Co. Durham)	-	49,375	4,674	21,525
Easington DC (Co. Durham)	-	n/k	1,408	5,685
Gateshead(MB) (Tyne & Wear)	c.1990	35,372	12,048	55,070
Hartlepool(B) (Cleveland)	1981	c.8,000	7,209	30,490
Langbaurgh(B) (Cleveland)	-	-	9,723	25,688
Middlesbrough(B) (Cleveland)	1979	12,382	12,382	58,911
Newcastle upon Tyne(M)(Tyne&Wear)	1978	34,500	34,500	128,980
North Tyneside(MB) (Tyne & Wear)	1983	20,793	11,380	52,190
Sedgefield DC (Co. Durham)	n/k	n/k	1,210	5,909
South Tyneside (MB) (Tyne & Wear)	-	16,285	12,731	53,424
Stockton-on-Tees(B) (Cleveland)	1985	48,062	11,255	36,936
Sunderland(MB) (Tyne & Wear)	n/k	34,530	6,175	22,120
	NORTH WESTERN			
Blackburn DC (Lancs)	1985/6	20,000	10,326	35,324
Bolton(MB) (Gtr. Manchester)	susp.	34,000	17,183	67,076
Burnley(B) (Lancs)	1980	20,000	17,000	42,000
Bury(MB) (Gtr. Manchester)	susp.	24,506	19,560	49,825
Chorley(B) (Lancs)	-	16,000	274	1,700
Crewe & Nantwich(B) (Cheshire)	1974	1,957	1,957	8,731
Ellesmere Port&Neston(B)Cheshire	-	-	3,716	15,881
Halton BC (Cheshire)	1980	17,121	16,693	39,760
Hyndburn(B) (Lancs)	1980	18,050	13,247	29,304*
Knowsley(M) (Merseyside)	susp.	-	6,359	51,295
Lancaster City (Lancs)	-	-	4,087	7,926*
Liverpool(M) (Merseyside)	n/k	27,819	19,660	114,876
Macclesfield(B) (Cheshire)	susp.	130,690	305	2,653
Manchester City(M)(Gtr.Manchester)	1982	28,720	26,164	158,148
Oldham(M) (Gtr. Manchester)	n/k	34,871	16,746	79,180
Pendle DC (Lancs)	1983	17,500	11,956	31,013
Preston(B) (Lancs)	1984	9,500	6,671	41,268
Ribble Valley(B) (Lancs)	-	143,119	432	356
Rochdale(M) (Gtr. Manchester)	1984/5	39,306	21,407	63,448
Rossendale(B) (Lancs)	1995	34,170	8,566	6,183
St. Helens(MB) (Merseyside)	c.1985	32,201	16,337	51,302
Salford City(M) (Gtr. Manchester)	1977	23,942	23,942	90,279
Sefton(M) (Merseyside)	n/k	36,325	2,587	13,463
South Ribble(B) (Lancs)	1990	27,454	3,182	5,123
Stockport(MB) (Gtr. Manchester)	1982	31,147	22,146	96,602
Tameside(MB) (Gtr. Manchester)	1981	25,500	19,650	80,419
Trafford(MB) (Gtr. Manchester)	1981	26,129	24,909	88,850

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Vale Royal DC (Cheshire)	-	-	6,616	10,100
Warrington(B) (Cheshire)	1981	43,527	35,437	64,087
West Lancashire DC (Lancs)	-	-	7,170	14,239*
Wigan(MB) (Gtr. Manchester)	1987	2,918	22,770	60,603
Wirral(M) (Merseyside)	1987	28,000	15,819	80,005
YORKSHIRE & HUMBERSIDE				
Barnsley(MB) (S. Yorks)	1990	81,280	12,088	24,139
Bradford City(M) (W. Yorks)	1985	91,444	50,838	180,106
Caldersale(MB) (W. Yorks)	1980	45,737	44,762	82,263
Craven DC (N. Yorks)	susp.	19,529	5,634	7,531
Derwentside DC (Co. Durham)	n/k	n/k	834	3,978
Glanford(B) (Humberside)	-	-	15,263	489
Kingston-upon-Hull City (Hu.side)	-	17,599	8,516	86,174
Kirklees(MB) (W. Yorks)	-	102,400	32,282	98,295
Leeds City(M) (W. Yorks)	1986/7	138,441	72,865	220,343
Rotherham(M) (S. Yorks)	-	69,881	11,686	50,089
Rydedale (DC) (N. Yorks)	1982	261	261	2,780
Scunthorpe(B) (Humberside)	1980	8,337	4,095	21,617*
Sheffield City(M) (S. Yorks)	1981	57,790	51,667	213,716
Wakefield City(M) (W. Yorks)	-	82,330	23,462	49,698
York City (N. Yorks)	susp.	7,306	4,013	19,159
WEST MIDLANDS				
Birmingham City (W. Midlands)	1983/5	65,309	52,989	292,259
Coventry City(M) (W. Midlands)	1984	23,845	7,049	31,218*
Dudley(MB) (W. Midlands)	1990	24,202	18,723	76,245
East Staffordshire DC (Staffs)	-	31,640	2,325	7,994
Lichfield DC (Staffs)	1983	3,597	2,625	2,597
Newcastle under Lyme (Staffs)	-	52,159	4,450	17,400
North Shropshire DC (Salop)	n/k	1,310	512	1,555
North Warwickshire(B)(Warwicks)	1984	14,510	4,997	6,503
Nuneaton(B) (Warwicks)	1982	19,587	8,514	18,713
Rugby(B) (Warwicks)	1979	7,010	7,010	21,594
Sandwell (MB) (W. Midlands)	-	21,150	6,536	34,466
Shrewsbury & Atcham(B) (Salop)	n/k	148,998	999	3,887
Solihull(MB) (W. Midlands)	-	44,495	6,282	35,927
Staffordshire Moorlands DC(Staffs)	-	-	96	514
South Staffordshire DC (Staffs)	-	-	5,187	1,674
Stoke on Trent City (Staffs)	1986	22,947	12,538	45,150*
Tamworth(B) (Staffs)	susp.	7,647	4,089	12,845
Walsall(MB) (W. Midlands)	-	26,266	13,847	50,256
Warwick DC (Warwicks)	1983	69,762	4,351	24,566
Wolverhampton(MB) (W. Midlands)	1992	17,031	8,865	54,715
Wrekin DC (Salop)	1985	19,311	6,023	10,728
Wyre Forest DC(Hereford&Worcester)	-	-	348	921

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
EAST MIDLANDS				
Amber Valley DC (Derbys)	1990	19,300	3,971	8,519
Ashfield DC (Notts)	-	27,202	11,693	15,269
Bassetlaw DC (Notts)	1987+	20,000	6,504	9,040
Blaby DC (Leics)	1990	20,171	5,308	11,942
Bolsover DC (Derbys)	-	39,623	730	2,980*
Broxtowe DC (Notts)	1983	20,033	8,668	27,830
Chesterfield(B) (Derbys)	1984	16,259	5,330	23,544
Corby DC (N'hants)	susp.	19,845	2,540	10,957
Derby(B) (Derbys)	1984	19,282	14,464	54,486
Erewash(B) (Derbys)	1998	7,690	2,343	9,178
Gedling(B) (Notts)	-	-	3,757	20,207
High Peak DC (Derbys)	susp.	133,630	2,550	11,473
Leicester City (Leics)	1975	18,144	18,144	91,218
Lincoln City (Lincs)	1,987	8,828	6,696	19,653
Mansfield DC (Notts)	1990	18,997	7,381	20,045
Northampton(B) (N'hants)	-	19,928	8,179	18,598
North East Derbyshire (Derbys)				
Nottingham City (Notts)	1986/7	18,364	11,283	44,471
Oadby & Wigston(B) (Leics)	susp.	-	145	903
Rushcliffe(B) (Notts)	1983	3,045	1,873	5,830*
South Derbyshire DC (Derbys)	n/k	n/k	83,806	3,075
South Kesteven DC (Lincs)	-	-	2,767	8,576
EAST ANGLIA				
Cambridge City (Cambs)	susp.	10,060	1,446	2,687
Norwich City (Norfolk)	susp.	9,655	1,535	3,090
Peterborough City (Cambs)	-	82,424	5,048	16,902
West Norfolk DC (Norfolk)	-	-	841	4,377
SOUTH WEST				
Bath City (Avon)	1992	7,092	-	-
Bristol City (Avon)	1986	27,073	15,452	69,939
Cheltenham DC (Gloucs)	-	-	896	2,915
Exeter City (Devon)	susp.	-	7,252	17,744
SOUTH EAST				
Aylesbury Vale DC (Bucks)	1986	3,594	913	5,047
Basildon DC (Essex)	susp.	-	4,528	21,682
Bracknell DC (Berks)	susp.	-	3,286	9,838
Brighton(B) (E. Sussex)	1992	14,478	1,265	17,436
Broxbourne(B) (Herts)	1990	12,962	2,913	11,431
Canterbury City (Kent)	-	77,207	251	2,083
Crawley(B) (W. Sussex)	1985	9,013	5,622	32,812

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Dacorum DC (Herts)	-	-	3,731	18,575
Dartford DC (Kent)	-	17,267	12,468	16,543
Epping Forest DC (Essex)	-	-	600	2,463
Gillingham(B) (Kent)	1979	11,023	11,023	33,083
Gravesham(B) (Kent)	1983	4,500	3,842	17,902
Guildford(B) (Surrey)	1985	c. 6,000	2,195	10,517
Harlow DC (Essex)	1965	6,320	6,320	27,977
Hertsmere DC (Herts)	susp.	2,120	2,120	7,913
Luton(B) (Beds)	1979	10,657	10,657	71,064
Medway(B) (Kent)	-	n/k	6,465	18,290
Milton Keynes(B) (Bucks)	-	c.15,000	6,502	17,893
North Bedfordshire(B) (Beds)	1989/90	7,314	3,342	14,498
North Hertfordshire DC (Herts)	-	92,332	1,341	4,825
Oxford City (Oxfordshire)	1990	8,785	3,484	15,659
Portsmouth City (Hants)	1989	9,249	865	8,778
Reading(B) (Berks)	1985	9,106	5,959	23,340
Sevenoaks DC (Kent)	n/k	2,315	1,341	3,684
Slough(B) (Berks)	n/k	6,816	4,486	21,065
Southampton City (Hants)	1981	4,254	3,926	27,551
Spelthorne(B) (Surrey)	-	13,880	11,752	30,896
Stevenage(B) (Herts)	1983/4	6,270	3,508	13,024
Thurrock(B) (Essex)	xld	-	8,450	20,924
Watford(B) (Herts)	1979	5,275	5,275	n/k
Windsor&Maidenhead Royal B(Berks)	susp.	-	831	2,655
Wycombe DC (Berks)	susp.	7,091	3,818	16,525

1 NB Interim completion

LONDON BOROUGHS

Corporation of London	1955	677	677	17,724
Barking	c.1985	8,877	6,787	49,436
Barnet	susp.	22,123	16,429	112,782
Bexley	1976	15,896	15,896	79,240
Brent	1975	10,934	10,934	95,624
Bromley	1979	29,600	29,600	124,457
Camden	1968	5,365	5,365	88,214
Croydon	susp.	21,395	13,164	105,583
Ealing	1972	13,711	13,711	112,876
Enfield	1979	20,061	20,061	88,947
Greenwich	1972	11,724	11,724	75,673
Hackney	1967	4,814	4,814	90,507
Hammersmith & Fulham	1967	39,499	39,499	72,559
Haringey	1968	7,490	7,490	94,281
Harrow	1975	12,553	12,553	82,060
Havering	1979	29,650	29,650	100,700
Hillingdon	1981	27,258	19,361	89,140
Hounslow	1972	14,635	14,635	90,271
Islington	1969	3,679	3,679	82,000
Kensington & Chelsea (Royal)	1972	2,950	2,950	25,288
Kingston upon Thames (Royal)	1980	9,138	6,782	52,543

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Lambeth	comp.	6,738	6,738	102,400
Lewisham	1981	8,581	8,184	101,972
Merton	1977	9,381	9,381	69,283
Newham	1980	8,986	6,023	75,879
Redbridge	1971	13,983	13,983	67,658
Richmond upon Thames	1972	5,209	5,209	82,623
Southwark	susp.	6,981	5,831	86,054
Sutton	1977	10,732	10,732	80,592
Tower Hamlets	1968	4,876	4,876	42,440
Waltham Forest	1978	9,805	9,805	n/k
Wandsworth	1978	8,860	8,860	108,693
Westminster City	1970	5,334	5,334	13,021

NORTHERN IRELAND

Antrim (Co. Antrim)	1976	764	764	6,338
Ards(B) (Co. Down)	-	-	105	823
Armagh DC (Co. Armagh)	-	-	4	96*
Ballymena(B) (Co. Antrim)	-	-	325	890
Belfast City (Co. Antrim&Co.Down)	1989	26,218	3,661	28,036
Castlereagh DC (Co. Down)	1982	5,911	5,428	17,756
Craigavon(B) (Co. Armagh)	1990	-	4,730	8,850*
Down (Co. Down)	n/k	-	482	910*
Larne(B) (Co. Antrim)	susp.	-	11	290*
Londonderry City (Londonderry)	-	-	74	546*
Newtownabbey (Co. Antrim)	-	-	1,742	6,483
North Down(B) (Co. Down)	-	-	176	765
Strabane (Co. Tyrone)	1974	54	54	750

SCOTLAND

Bearsden & Milngavie(Strathclyde)	-	5,000	5,000	13,000
Clackmannan (Central)	n/k	2,095	375	2,200*
Clydebank (Strathclyde)	1979	9,239	9,239	19,162
Cunninghame DC (Irvine)	1995	c.12,160	116	550
Dumbarton (Strathclyde)	1989	11,787	4,301	9,816
Dundee City (Tayside)	1981	12,654	11,930	62,426
Dunfermline (Fife)	1990	76,800	931	5,430
Edinburgh City (Lothian)	1985	64,000	22,600	81,000
Ettrick & Lauderdale (Galashiels area only)	-	1,766	1,766	5,235
Falkirk (Central)	n/k	70,400	12,812	32,753
Glasgow City (Strathclyde)	1986	49,753	35,295	259,605
Hamilton (Strathclyde)	1989	32,640	4,167	15,737
Inverclyde (Strathclyde)	-	-	1,461	7,423
Kilmarnock & Loudoun(Strathclyde)	No current programme		101	577
Kirkcaldy (Fife)	-	-	5,839	7,083*
Kyle & Carrick	-	-	99	274

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Monklands (Strathclyde)	1987	10,128	5,138	20,482
Motherwell (Strathclyde)	1984	-	773	3,364
Nithsdale (Dumfries & Galloway)	1989	3,274	1,529	3,652
Renfrew (Strathclyde)	1988	-	14,580	59,657
Roxburgh (Borders)	-	1,240	427	1,871
Stirling (Central)	-	-	378	2,000
Strathkelvin (Strathclyde)	-	41,280	4,014	n/k*
West Lothian (Lothian)	-	103,401	6,521	11,853
WALES				
Alyn & Deeside(W) (Clwyd)	-	-	50	449
Delyn(B) (Clwyd)	-	370	140	n/k*
Newport(B) (W) (Gwent)	-	-	67	1,178
Wrexham Maelor(B) (W) (Clwyd)	-	90,571	2,166	10,390

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2. By Central Government - M.F. Tunnicliffe
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5. What has been Achieved and What Remains to be Done - In the Domestic Field - E.W.Foskett
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7. The Fifth Report of the Royal Commission on Environmental Pollution - Comments by the CBI - A.I. Biggs
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1. The UK Approach to the Control of Air Pollution - A European Appraisal - Dr.E.Weber
2. The European Approach - P.J.Wilde
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4. The Role of HM Alkali and Clean Air Inspectorate -S.J.Hart
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6. The Need for Education - Are we Doing Enough? - D.L.Lewis and Mrs.C.Mares
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11. Air Pollution- The Cost of Abatement and Control - A.W.F.Maule

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Part II: Reports of Discussions

BOURNEMOUTH CONFERENCE, SEPTEMBER 1980

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Technical Seminar, Manchester, March 1972.
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13. Some Problems of Dry Processes for Removing SO_2 from Flue Gases - J. Bettelheim and B.H.M. Billinge
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Part II: Report of the Discussions

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1. Lead in Petrol - is it Necessary? - C.L. Goodacre
2. Acceptable Devices for the Control of Emissions - Expert Panel
3. Why do Diesels Make Smoke - How May it be Abated? - N.M.F. Vulliamy
4. Regulations Regarding Smoke Emission: Are They Adequate? How Can They Be Strengthened? - P. Draper
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6. Gas Turbines for Rail Traction - M.A. Stokes
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Technical Seminar, Sheffield, March 1974
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3. The Development of Fume Cleaning Plant for the Templeborough Electric Melting Shope, B.S.C. - I.C. Cross
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9. Reduction of Combustion Generated Air Pollution - Professor J.M. Beer and Dr. A.B. Hedley

Part II: Report of Discussions

Technical Seminar, Newcastle upon Tyne, March 1975
Part I: The Second Working Party on Grit and Dust
1. General Considerations - Dr. G.G. Thurlow
2. The Work of the Incineration Panel - G. Taylor
3. The Work of the Cold Blast Cupola Panel - P.J. Moseley and F.M. Shaw
4. Dryers and Miscellaneous Furnaces - E.B. Briggs

Monitoring
5. Instrumentation for Particulate Measurement - A. Keating
6. The Need for Monitoring - A. Archer
7. Practical Experience on Measurement of Grit and Dust Emissions - W. Short
8. Measurement and Standards for Pollutant Emissions from Stationary Sources - S.C. Wallin and P. Clayton

Control of Grit, Dust and Fume
9. Specific Problems - Dr. E.T.J. Fuge
10. Grit Arrestors - H. Westwood
11. The Electrostatic Precipitator at High Temperature - K. Darby and K.R. Parker
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14. Afterburning as a Means of Fume Incineration - J. Thurley

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3. The Second Report of the Department of the Environment Working Part on the Suppression of Odour from Offensive and Selected Other Trades - Dr. H.N.M. Stewart
4. The Effects of Odours on Health - Dr. C. White
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Workshop, Bristol, April 1978.
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Workshop, Warwick, April 1979
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5. Effects of Emissions - Lead - Dr.D.Barltrop
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7. The Technology of Controlling Exhaust Emissions (A) Present (B) Future Trends - Dr.J.H.Wearing

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telex: 47156 AT G

Independent firm of noise and vibration consultants established in 1970. There are over twenty well qualified specialists with a full range of instruments and laboratory facilities at their disposal. Services provided range from surveys and remedial recommendations for factory or community problems, to comprehensive impact studies and designs for major new projects.

ANALYSIS FOR INDUSTRY
Factories 2/3, Bosworth House,
High Street, Thorpe-le-Soken,
Essex CO16 0EA
tel: Clacton-on-Sea 861714
(STD 0255)
Colchester 70315
(STD 0206)

Sampling, laboratory analysis and technical appraisal services - including: atmosphere testing (e.g. office or factory working conditions), asbestos identification and estimation, monomer contents and other health and safety limits, water pollution, packaging safety, forensic work, expert witness. Full instrumentation (chromatography - GLC, TLC, HPLC, i-r visible and u-v spectroscopy, spectrophotometry, spectrography, polarography, etc.

W.S. ATKINS GROUP
Woodcote Grove, Ashley Road,
Epsom, Surrey KT18 5BW
tel: Epsom 26140
telex: 23497

Environmental studies and pollution engineering. Experience in the United Kingdom and overseas includes noise, air, water and terrestrial pollution surveys; establishment of short and long-term environmental monitoring programmes; ecological studies; assessment of effects of pollution on human health, agriculture, amenity etc; modelling and dispersion studies; advice on legislation, criteria and standards; environmental impact studies; cost-benefit analyses; occupational health and safety studies; social surveys; and all aspects of pollution control engineering.

BRITISH CONSULTANTS BUREAU
Westminster Palace Gardens,
1-7 Artillery Row,
London SW1P 1RJ
tel: 01-222 3651/4
telex: 24552 for BRITBURO

DR. S.R. CRAXFORD, ISO
24 Field Lane, Letchworth, Herts
SG6 3LE
tel: 04626 5085

Specialist in air pollution.

ENVIRONMENTAL RESOURCES LIMITED
79 Baker Street, London W1M 1AJ
tel: 01-486 8277
telex: 25247 Attn ERL

Environmental Resources Ltd are specialists in environmental research: pollution and environmental impact monitoring, analysis and assessment of environmental data, recommendations for pollution control measures and their implementation, cost-benefit analyses and economic analyses of least-cost methods of pollution reduction, waste disposal strategy and operational plans, technological forecasting and environmental-risk assessment. Energy studies are undertaken through an associate company, ERL Energy Resources Limited.

Multi-disciplinary services are offered to international bodies, national, regional and local governments and industry in the field of waste disposal management, industrial pollution problems and land-use development studies.

HUNTINGDON RESEARCH CENTRE (DEPARTMENT OF INHALATION TOXICOLOGY)
Huntingdon, Cambs. PE18 6ES
tel: (0480) 890431
telex: 32100

Huntingdon Research Centre is an independent contract research organisation offering confidential services and consultancy relating to the biological safety evaluation of chemicals - involving toxicity carcinogenicity and mutagenicity tests, chemical and analytical services, etc. In particular, the Department of Inhalation Toxicology covers aspects of aerosol technology and inhalation toxicity testing.

INDUSTRIAL GAS CLEANING ASSOCIATION
15 Tooks Court, London EC4A 1LA
tel: 01-831 7581
telex: 23485

Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage and packing free). Also general information booklet about Association and Members - free.

INDUSTRIAL POLLUTION ABATEMENT LIMITED
233/243 Wimbledon Park Road,
Southfields,
London SW18 5RJ
Tel: 01-874 7778
Telex: 897750

Consultants specialising in environmental control, emission monitoring and prevention.

INTERNATIONAL CONSULTING AND LABORATORY SERVICES
Head Office: 288 Windsor Street,
Birmingham B7 4DW
tel: 021-359 5951
telex: 337273
London Office: 188 Brent Crescent, London NW10
tel: 01-956 1157

Environmental Protection Services
A service is provided to monitor air quality, gaseous fumes and dust emissions and to design remedial measures.

Typical sites monitored are chemical and engineering works, and tips and polluted sites, and our recommendations range from minor operating procedure adjustments to complete redesign of extraction systems. Negotiation with the Factory Inspector and EMAS is undertaken.

A further service of monitoring, control and treatment of water-borne and soil pollutants is available.

LYNE & MARTIN (PUBLIC ANALYSTS)
The Public Analyst's Laboratory,
220 Elgar Road, Reading RG2 0DG
tel: 0734 82428/9

Chemical, microbiological and microscopical examination of air samples, dusts and polluted atmospheres; particle size analysis; asbestos fibre counts.

NIFES (NATIONAL INDUSTRIAL FUEL EFFICIENCY SERVICE LTD)
Orchard House, 14 Great Smith
Street, London SW1P 3BU
tel: 01-222 0961
(till March 1981

Nifes House, Sinderland Road,
Broadheath, Altrincham, Cheshire
tel: 061-928 5791
(from March 1981 onwards)

(For Branch Offices, see heading under Directory of Organisations)

NIFES provides a complete advisory service on energy utilisation and conservation and associated pollution problems. A full consultancy service is provided for the design and specification of new plant and services, including all types of refuse disposal equipment.

WARREN SPRING LABORATORY
Department of Industry,
PO Box 20, Gunnels Wood Road,
Stevenage, Herts SG1 2BX
tel: 0438 3388
telex: 82250

Consultancy and contract research is available for:

a) sampling, measurement and characterisation of particulate, gaseous and odorous emissions from combustion and process plant. Evaluation and selection of abatement equipment for the above emissions. Included also are dust and fume generation and control;

b) mathematical and wind tunnel modelling of air pollutant dispersion. Includes prediction of air pollution concentration on regional and local scale, chimney height determinations and dispersion of hazardous materials (e.g. dense gas spills);

c) methods of measurement and assessment of pollutant observations in the ambient atmosphere.

GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Application for the loan of films, or for the purchase of audio visual aids, should be made to the relevant issuing organisation referred to in the lists. Films are on free loan unless hire charges or purchase price are quoted. Two or three weeks notice should be given in advance of borrowing/hire of films for a specific date. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Members' Handbook.

ASBESTOS INFORMATION CENTRE

A number of 16 mm colour sound films are available through the Asbestos Information Centre. Because of changing health and safety standards it is recommended that potential borrowers first discuss their requirements and interests with the A.I.C.

'AUDIO VISUAL'
A pulsed slide-tape presentation (18 mins.) available from the A.I.C. This programme looks at the nature and uses of asbestos together with information on health and safety. The programme is usually presented by an approved A.I.C. lecturer.

Available from:
ASBESTOS INFORMATION CENTRE
Sackville House,
40 Piccadilly,
London W1V 9PA
tel: 01-439 9231

BBC FILM ENTERPRISE HIRE

THE ENERGY CRUNCH
This series of 3 films (total running time, 50 mins.) attempts to analyse the likely effects of the speed with which man is devouring his energy resources, particularly oil and gas. It shows how we may be lighting our homes and driving our cars in the year 2000:

1. The bottom of the Oil Barrel:
   Ref. No. 600-0604-4
2. The Nuclear Dilemma:
   Ref. No. 600-0605-1
3. The Sunbeam Solution:
   Ref. No. 600-0606-8

Colour 16 mm (hire, each film)
(2 days) £11. (1 week) £14.

HORIZON: DUE TO LACK OF INTEREST TOMORROW HAS BEEN CANCELLED
Much publicity has recently been given to statements such as that by Prof. Paul Ehrlich of Stanford University: 'If you had to ask me what the chances are of civilisation reaching the turn of the century, I would have to say one or two per cent - if we're lucky'. How much foundation is there for this kind of attitude? Are the scientists who predict ecological disaster exaggerating the situation to gain attention? Ref. No. 600-0055-2
Colour 50 mins. 16 mm
(2 days) £12. (1 week) £18.

HORIZON: WHAT A WASTE
The average British family throws away almost £100 a year in packaging and by the 1980s twice as much material will find its way into our dustbins. While we are throwing away our 18 million tons of rubbish a year, we are also importing 90 per cent of our raw material. This film investigates the possibilities of recycling refuse in the U.K. Ref. No. 600-0357-3
Colour 50 mins. 16 mm
(2 days) £14. (1 week) £20.

THE NOISE INVASION
Investigates industrial exposure to noise, and noise in the home etc. With the speed at which social attitudes are changing, noise as a constant and unavoidable feature of our daily lives is becoming one of the most important environmental issues. Ref. No. 600-0064-8.
Colour 50 mins. 16 mm
(2 days) £8. (1 week) £11.

A QUESTION OF SURVIVAL: PUBLIC POISON
Film about the victims of industrial contamination - Japan. Lead, cadmium and mercury. Ref. No. 600-0371-7
Colour 50 mins. 16 mm
(2 days) £10. (1 week) £14.

Available from:
BBC ENTERPRISES FILM HIRE
Woodston House,
Oundle Road,
Peterborough PE2 9PZ
tel: (0733) 52257/8

BRITISH GAS CORPORATION

THE AIR - MY ENEMY
Colour 25 mins. 16 mm

BRITAIN'S NATURAL GAS
Colour 21 mins. 16 mm

I'M GLAD YOU ASKED THAT QUESTION
Colour 10 mins. 16 mm

The above films are available on free loan from:
VISCOM FILM LIBRARY
Parkhall Road Trading Estate,
Dulwich,
London SE21 86E
tel: 01-761 3035/6

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY 1964
B/W 10 mins. 16 mm £3 + VAT

Available from:
BMA/BLAT FILM LIBRARY
BMA House,
Tavistock Square,
London SC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

THE COMBUSTION PROCESS
Colour 26 mins. 16 mm

ENERGY IN PERSPECTIVE
Colour 21 mins. 16 mm

HAZCHEM
Explains the new U.K. Hazard Information System label and how it works; is primarily intended for those directly concerned with the safe movement of chemicals by road: chemical manufacturers, haulage contractors and drivers, emergency services, local authorities etc.
Colour 14 mins. 16 mm

PLANET WATER
Explains how the sea influences our climate, and considers the growing conflict between industry, recreation and coastal traffic which are pressing upon our crowded shores. Studies the fishing industry and sea-farming

and examines the problem of pollution which is gradually turning parts of the sea into a cesspool.
Colour 25 mins. 16 mm

THE SHADOW OF PROGRESS
Deals with the environmental problems posed by a technological age and discusses remedies: air, water, soil pollution; quality of life.
Colour 27 mins. 16 mm

THE TIDE OF TRAFFIC
Colour 29 mins. 16 mm

WEB OF LIFE SERIES
Seven films examining the ecological balance of the world's major systems: THE LIVING LAKES; THE LIVING MOUNTAINS; THE LIVING RAIN FOREST; THE LIVING RIVER; THE LIVING SAVANNA; THE LIVING TUNDRA; THE LIVING WOODLAND.
Colour 30 mins. 16 mm

The above films are available on free loan from:
THE BP FILM LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1129

CEGB FILM LIBRARY

ANYWHERE BUT HERE
Colour 34 mins. 16 mm 1968

CHANGE FOR SAFETY
Colour 24 mins. 16 mm 1970

ELECTRICITY & THE ENVIRONMENT
Colour 22 mins. 16 mm 1971

A NATURAL QUESTION
Shows nature trails and conservation around CEGB's power stations. Presented by naturalist and author, Phil Drabble.
Colour 28 mins. 16 mm & & video 1978

NUCLEAR GENERATION
Colour 17 mins. 16 mm 1976

POWER ON DEMAND
Colour 15 mins. 16 mm 1975

RESEARCH FOR POWER
Shows how the massive CEGB research effort helps to keep costs down and minimises the environmental effects of power stations.
Colour 28 mins 16 mm 1978

The above films are available on free loan from:
CENTRAL ELECTRICITY GENERATING BOARD FILM LIBRARY
Sudbury House,
15 Newgate Street,
London EC1A 7AU
tel: 01-248 1202

CENTRAL FILM LIBRARY

AIR POLLUTION - A MEDICAL INVESTIGATION OF ONE ASPECT
Deals with work on health effects of air pollutants (especially from motor vehicle exhausts) carried out by the MRC Toxicology Unit, Clinical Section, at Barts.
U.K. 2686 17 mins. 1972

ASBESTOS AT WORK
Explains in simple terms the operation of the 1969 Asbestos Regulations.
U.K. 2377 13 mins 1974

'AWT' ADVANCED WASTEWATER TREATMENT
Deals with new processes at three pilot plants. DOE, United Motion Pictures. U.K. 3341
18 mins. Hire 1977

BLACK SPOT TO BEAUTY SPOT
Transformation of derelict land around Stoke-on-Trent; purification of polluted streams.
U.K. 3091
Colour 15 mins. Hire 1972

CLEAN AND PLEASANT LAND
Clean up of oil polluted beaches.
U.K. 3278
Colour 31 mins. Hire 1976

DON'T TELL THE LADS
Deals with exposure to lead at a battery factory, medical investigation and remedial action.
U.K. 3316 26 mins. Hire 1976

IT'S ALL MAN MADE
Environmental problems along the River Trent and remedial measures. COI for Department of the Environment. U.K. 2721
Colour 26 mins. Free loan 1974

THE NEW PROSPECTORS
Reclamation of household waste, including coverage of WSL pilot scale dry processing plant.
U.K. 3290
Colour 18 mins. Hire 1976

PLANT A TREE
Short cartoon to encourage interest in trees and tree planting. U.K. 2783
3 mins. Free loan 1972

RUBBISH TIPS
How household waste can be collected and voluntary groups organised. U.K. 2857
Colour 11 mins. Free loan. 1979
(also on 8 mm film, Sony U-matic, Phillips VCR 1500 and VHS videocassette)

THE REASON WHY
Swinden Quarry, Yorkshire Dales National Park - project and advanced design of crushing plant and kiln and anti-pollution measures are described.
U.K. 2376 19 mins. 1973

THE SKY IS A CANVAS
Illustrates duties of an Alkali Inspector and work on prevention of air pollution. U.K. 3389.
Colour 22 mins. Hire 1978.
(free to schools/colleges) (also on Phillips VCR 1500 videocassette)

VENICE IN PERIL
From tidal forces and air pollution. Shows history of Venice and efforts to save its art treasures.
V 760 16 mins. Hire 1969

The films above are all 16 mm.
Hire prices on request.
Available from:
CENTRAL FILM LIBRARY
Bromyard Avenue,
Acton, London W3 7JB
tel: 01-743 5555

CONCORD FILMS COUNCIL LTD.

AIR POLLUTION SERIES
Three films: Part I, 'Sources and Effects', 22 mins; Part II, 'The Science of the Situation', 25 mins; Part III, 'Methods of Control', 31 mins.
Colour £9.20 per film.

ALPHA OR OMEGA
Provocative film aimed at young people argues that if we are sufficiently concerned we can solve the population, pollution, energy and inflation problems that beset the human race.
Colour 15 mins. £6.20

AND ON THE EIGHTH DAY
Pollution of the environment: water, air, earth, fire (radioactivity).
Colour 60 mins. 1970 £14.00

BATES'S CAR - SWEET AS A NUT
Harold Bates's car - adapted to use methane gas made from manure on his farm.
Colour 15 mins. £5.00

BILL LOOSELEY'S HEAT PUMP
Takes heat from soil in the garden where copper pipes fitted

with gas are buried, then pumps heat into the house.
Colour 10 mins. £4.20

BRAVE NEW WORLD
Conveys the atmosphere of the progression of industrialisation through a country.
Colour 12 mins. £4.20

BUTTERCUP
Follows a buttercup floating from fresh water into the filth left by industrial man.
Colour 11 mins. £4.40

CONSERVATION AND BALANCE IN NATURE
Comprehensive picture of man's relationship to his environment.
Colour 18 mins. £5.80

DEAD EARTH
Survival of the environment, harmful use of defoliants.
Colour 20 mins. £5.60

DON'T SPOIL OUR WORLD
Paintings by school-children on aspects of pollution.
Colour Filmstrip, for sale only.
£5.00

DUE TO LACK OF INTEREST TOMORROW WILL BE CANCELLED
Are the scientists who predict ecological disaster exaggerating the situation to gain attention?
B/W 50 mins. £9.60

THE ENERGY SERIES:

ENERGY - THE DILEMMA
Explores problems of supply and demand. Will we run out of fuel soon?
Colour U.S.A. 1974 20 mins.
£5.80

ENERGY - THE NUCLEAR ALTERNATIVE
Nuclear safety issues explored.
Colour U.S.A. 1974 20 mins.
£5.80

ENERGY - NEW SOURCES
Solar panels, hot water geysers etc.
Colour 20 mins. £5.80

ENERGY - LESS IS MORE
What of the future - will we have to adopt a new way of thinking?
Colour U.S.A. 1974 18 mins.
£5.80

THE FACTS ARE THESE SERIES - NO. 6 IN A CLEANER, GREENER LAND
Pollution of air, water and land. Suitable for children.
Colour 20 mins. £5.80

FIRST MILE UP
Canadian study of air pollution.
B/W 30 mins. 1961 £6.20

HARNESS THE WIND
An animated history of wind generators.
Colour 12 mins. £4.40

HAVE OUR PLANET AND EAT IT TOO?
Strip mining - illustrates the dilemma between maintaining standard of living and preserving environment.
Colour 24 mins. £8.80

INTERVIEW WITH PAUL EHRLICH
American ecologist and author of "The Population Bomb".
B/W 40 mins. £5.60

LIVING DANGEROUSLY
Seveso disaster and after-effects.
B/W 30 mins. 1976 £6.40

MAN THE POLLUTER
A richly illustrated cartoon of man's capacity to foul his own nest and ignore it.
Colour 53 mins. 1978 £15.20

A MATTER OF ATTITUDES
A project to discover how much people are aware of pollution in Canada.
B/W 30 mins. £6.40

MULTIPLY AND SUBDUE THE EARTH
Deals in detail with man's

misuse of the environment.
Colour 50 mins. £14.00

NATURE'S WAY
Looks at eco-systems and man's interactions with natural environments. Suitable for all ages.
Colour 15 mins. £5.00

NOISE POLLUTION SERIES
Noise and people, the science of sound and noise control are the subjects dealt with in this series of three films. Part 1, 30 mins; Part 2, 22 mins; Part 3, 20 mins.
Colour. £9.20 each film.

NUCLEAR NIGHTMARE
The Three Mile Island, Harrisburg, USA, crisis Granada 'World in Action' Programme.
Colour 30 mins. 1979 £11.00

PERSISTENT AND FINANGLING
True story of a pressure group – 'Stop: Society to Overcome Pollution' – in Montreal.
B/W 60 mins. £7.00

POLLUTION: 1st, 2nd, 3rd
Three films dealing with the subjects of Water, Air and Solid Waste Pollution. Part 1, 26 mins; Part 2, 22 mins; Part 3, 23 mins.
Colour £8.20 each film.

POFULATION AND POLLUTION
Links these two vital subjects. Suitable for older children.
Colour USA 1970 18 mins £5.60

SMALL IS BEAUTIFUL
A filmed biography of E.F. Schumacher.
Colour 27 mins. 1979 £9.20

SOLAR ENERGY – HOW IT WORKS
Explanatory film for children & lay audiences.
Colour 15 mins. £6.40

THE SOLAR HOUSEHOLD
Looks at various domestic systems available and research into reliability of different materials and designs.
Colour 25 mins. 1978 £6.60

TRAFFIC OR TRANSIT
The effects of traffic on the environment, particularly in the city of Hamburg.
Colour 30 mins. £9.20

WHO STOLE THE QUIET DAY?
Noise – comprehensive film suitable for most ages.
Colour 16 mins USA 1973 £5.20

WHO TAKES THE LEAD?
The moral & physical dangers created by pollution are focused on this playlet.
B/W 25 mins. £5.60

The films listed above are all 16 mm with optical soundtrack. The hire charges shown are for one day (25% extra for each additional day). Carriage and VAT are not included in the hire charge. Free catalogues are available listing Ecology and Nuclear Power Films. Complete catalogue is available (cash with order), Price £1.50.

Available from:
CONCORD FILMS COUNCIL LTD
201, Felixstowe Road,
Ipswich, Suffolk IP3 9BJ
tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES – WHAT ARE THE FACTS?
Colour 20 mins. 16/8 mm

MAKE ROOM WITH ELECTRICITY
Colour 24 mins. 16/8 mm

The above films are available on free loan from:

THE ELECTRICITY COUNCIL, FILM LIBRARY,
30 Millbank,
London SW1P 4RD

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industry in the United Kingdom and the Republic of Ireland, and the UK Atomic Energy Authority.

A catalogue lists 16 mm films, 35 mm filmstrips, posters, publications, information sheets, wall charts and other educational material.

Facilities (including environmental study centres, nature trails and visits to power stations) are provided by the Regions of the Central Electricity Generating Board and the Supply Undertakings in Scotland and Ireland. Details from UNDERSTANDING ELECTRICITY, Electricity Council, 30 Millbank, London SW1P 4RD.

FIELD STUDIES COUNCIL

THE HIDDEN WORLD
Colour 19½ mins. 16 mm

Available from The Secretary
FIELD STUDIES COUNCIL
62 Wilson Street,
London EC2A 2BU
tel: 01-247 4651

GATEWAY EDUCATIONAL MEDIA

BIOLOGICAL EQUILIBRIUM
Colour 12 mins. 15 mm £6.50

OF BROCCOLI AND PELICANS AND CELERY AND SEALS
Colour 29 mins. 16 mm £8.90

The above films are available for hire from:

GATEWAY FILM HIRE LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1127

GUILD SOUND & VISION LTD

A LOAD OF OLD RUBBISH
Note: This films is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, Room 226, The County Hall, Greater London Council, London SE1
Colour 26 mins. £5.25 + VAT

SOMETHING CAN BE DONE ABOUT WATER
BASF United Kingdom Ltd.
Colour 26 mins. £5.25 + VAT

SOUND SENSE
Colour 16 mins. free loan

TAKEN FOR GRANTED
The film is available on 'free loan' to anyone living within the Thames Water Region.
Colour 15 mins. £4.90 + VAT

The above films are available from:
GUILD SOUND & VISION LTD.
Woodston House,
Oundle Road,
Peterborough PE2 9PZ
tel: Peterborough (0733) 63122

LOUGHBOROUGH UNIVERSITY ENVIRONMENTAL FILMS

AIR POLLUTION
1. SOURCES AND EFFECTS*
Air pollutants are particulates, gas or radioactive materials from both natural and man-made sources. These are detailed, their effects on people and the environment illustrated.
Colour 20 mins. £16 (2 days)

2. THE SCIENCE OF THE SITUATION*
Measurements of size, density and shape classify particles and to a large extent their behaviour in air. The film shows how knowledge of the nature and behaviour of the material to be removed is necessary before deciding which type of equipment is most suitable.
Colour 22 mins. £16 (2 days)

3. METHODS OF CONTROL
Intelligent air pollution legislation based on scientific understanding balances environmental improvement with economic realism. The balance is between conservation, pollution and improving standards of living.
Colour 28 mins. £18 (2 days)

WATER POLLUTION

1. QUALITY AND SUPPLY
To maintain the quality of mains water, collected, treated and distributed by the Water Authorities requires close control of waste water discharges by industry at all stages. Costs of supplying and treating water, sources and effects of river pollution and control by the measurement of biochemical oxygen demand are discussed.
Colour 27 mins. £18 (2 days)

2. USE AND TREATMENT*
Shows the basis of charges for disposing of waste water from industry. The treatment of used water both before and after discharge to sewer is discussed and the point made that major cost savings can result by relating quality to use, by conservation, re-cycling and re-use.
Colour 28 mins. £18 (2 days)

NOISE

1. NOISE AND PEOPLE*
Shows how various are the effects of noise in different situations. Simple and complex sounds are shown on the oscilloscope and spectrum analyser. Loudness, intensity, decibels and the use of sound level meters are explained.
Colour 18 mins. £18 (2 days)

2. THE SCIENCE OF SOUND*
The physical principles which govern the behaviour of sound are explained. What we hear depends on what happens to sound as it travels. The effects of distance, atmospheric variations and obstacles are shown.
Colour 20 mins. £16 (2 days)

3. CONTROL OF NOISE
Most noise comes from machines so that the more machines the greater the problem, unless the source of the noise is tackled. The principles and practice of effective noise reduction by distance, barriers, insulation and personal protection are described.
Colour 19 mins. £16 (2 days)

4. NOISE (NCB)
Sequences selected by the NCB for training purposes from Noise 1 & 3 are combined to provide a general awareness film.
Colour £18 (2 days)

THE BUILT ENVIRONMENT

BUILDINGS FOR PEOPLE
Shows how integrated environmental design can create buildings which provide a satisfactory environment, are economical to run and maintain, and are aesthetic. Form, shape and materials affect the amount of noise, heat, air and light flowing into, out of or around buildings as well as the aesthetics and structural system. Design and research in building environmental engineering are emphasised.

Colour 35 mins. £20 (2 days)

* Also available as Sony U-matic video cassettes. Special hire rates for educational establishments.

Available from:
Sonia Withers,
Centre for Extension Studies,
LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY
Loughborough,
Leics. LE11 3TU
tel: (0509) 67494

MOTHERWELL BRIDGE TACOL LTD

NO TIPPING
Colour 14 mins. 16 mm

Available from:
MOTHERWELL BRIDGE TACOL LTD
Green Dragon House,
64/70 High Street,
Croydon,
Surrey CR0 1NA
tel: 01-686 6917

N.C.B. FILM LIBRARY

CLEAN AIR AT HANDSWORTH
Colour 8 mins. 16 mm 1967/72

CLEAR THE AIR
Colour 11 mins. 16 mm 1976

CHIMNEYS
Colour 21 mins. 16 mm 1975

DISTRICT HEATING
Colour 24 mins. 16 mm 1972

GETTING THE BEST OUT SUNBRITE
Colour 7 mins. 16 mm 1977

INCINERATE - WITH COAL
Colour 26 mins. 16 mm 1973

LIVING FIRE
Colour 5½ mins. 16 mm 1973

NOT JUST FOR BURNING
RESEARCH INTO COAL AT C.R.E.
1971 revised 1974.
Colour 25 mins. 16 mm

SFAS - SOLID FUEL ADVISORY SERVICE
Colour 16 mins. 16 mm 1975

TOMORROW'S COAL
Colour 27 mins. 16 mm 1974

WELCOME HOME
Colour 22 mins. 16 mm 1968

The above films are available on free loan (£1 handling charge per programme) from:
NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London SW1X 7AE
tel: 01-235 2020
telex: 882161

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY
Colour 25 mins. free loan

Available from:
SHEFFIELD PUBLICITY OFFICE
Town Hall,
Sheffield 1.
tel: (0742) 26444

SHELL FILM LIBRARY

ENVIRONMENT IN THE BALANCE
Shows how geological, topographical and social developments in Britain helped to shape our environment. Discusses industrial expansion, population growth and pollution.
Colour 30 mins. 16 mm 1978

THE RIVER MUST LIVE
Balance of life in a healthy river, effects of pollution.
Colour 21 mins. 16 mm 1966
(re-edited 1976)

WORLD OF OIL
Series of 7 self-contained films which forms an introduction to the subject of oil for pupils taking CSE or O Level in Science or Geography. Parts 1-3 and 4-6

are available either separately or on two reels of three parts each. Borrowers should state their preference.

1. Oil Formation 5 mins.
2. Where and How Oil is Found 7 mins.
3. Drilling for Oil 8 mins.
4. From Well to Refinery 5 mins.
5. The Refinery 10 mins.
6. Distribution 7 mins.
7. Natural Gas and the Petroleum Gases 11 mins.

Colour 53 mins. (total) 1976

The above films are available on free loan from:
SHELL FILM LIBRARY
25 The Burroughs,
Hendon,
London NW4 4AT
tel: 01-202 7803

BARRY WILES FILMS

A BREATH OF SPRING
Shows benefits of air conditioning. Electricity Council.
Colour 18 mins. Standard 8 mm
Free loan.

IF YOU CAN KEEP YOUR COOL
Advantages of air conditioning - centres on busy disc jockey. Electricity Council, 1978.
Colour 10 mins. Super 8 mm only.
Free loan.

NOW AND THEN
Development of the British Gas Industry. British Gas Corporation.
Colour 28 mins. Super 8 mm only.
Free loan.

RUBBISH BY RAIL
Waste railborne to tipping sites in worked-out gravel pits, later restored for agricultural use. British Transport Films, 1977.
Colour 7 mins. Super 8 mm only.
75 p fee.

The above films are available from:
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TRADE DIRECTORY & BUYERS' GUIDE

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Actair International Limited is a British Company, specialising in the field of environmental control. It manufactures systems and equipment for air conditioning, electrostatic air cleaning, industrial dust and fume control, cooling towers and oil filtration; for sale in both home and export markets.

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Weybridge, Surrey KT14 7PB
tel: Byfleet 43224/5
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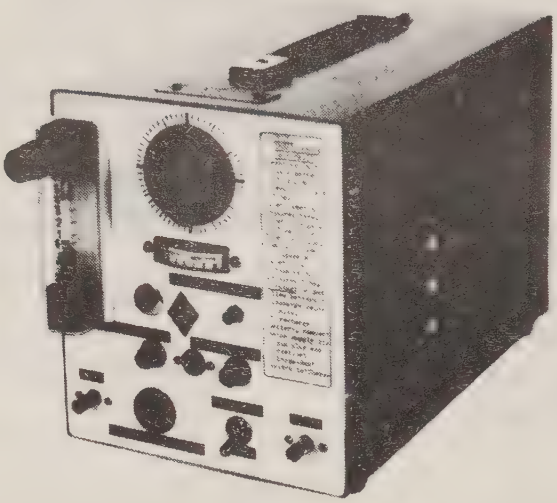

The F.I. Unit illustrated is normally used with an approved range of sampling devices for taking a quantitative sample of an industrial atmosphere for subsequent analysis. Manufacturers of a range of diaphragm pumps covering flow rates from 0.5 to 70 litres per minute.

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Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, tubular filters, self-induced spray wet de-dusters, dust control units, automatic filtration systems and custom-built installations.

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Grove Laboratories, Denchworth
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OX12 9BJ
tel: 023 57 2992
telex: 837166

The Service studies the air pollution problems in the non-ferrous metals industries and provides to both members and non-members consultancy services and fume monitoring facilities in connection with all aspects of melting and processing.

ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURERS ASSOCIATION
136 North Street, Brighton
BN1 1RG
tel: 0273 26313

EPEMA

EPEMA was inaugurated in September 1972 under the auspices of the NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

A copy of our Members' Handbook, which gives details of our Association and our members will be forwarded upon request.

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Specialists in Air Pollution Control and sole licensees for Patented Oxyflow Odour Control Systems. Total service capability, including design, installation and commissioning ensures that each system is specifically engineered to suit each application. A member company of The Environmental Resource Group, the leading exponents in Effluent Treatment and Metal Recovery.

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Manufacturers of dust and fume control equipment including cyclones, absorption scrubbers and venturi scrubbers, fluid bed dryers and coolers, water and effluent treatment systems. Specialists in foundry cupola and electric furnace gas cleaning. U.K. agents for Hawley Close Capture Hooding Systems and Waagner-Biro High Efficiency Venturi Scrubbers.

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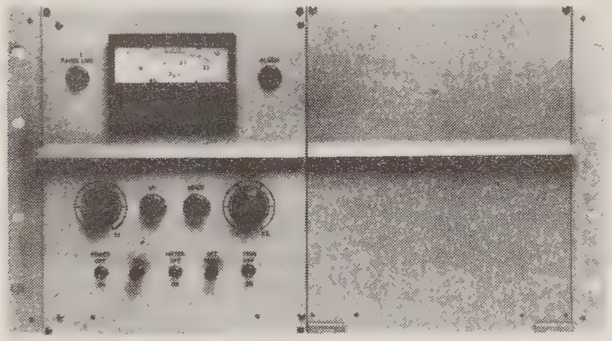
Hamworthy



The Combustion Division of Hamworthy covers every aspect of combustion engineering from the supply of modular boilers and radiant heaters for commercial use to oil and gas firing equipment for some of the world's largest generating stations. Other manufactured items include fully automatic registers for dual fuel burners for utilising both gas and oil and combustion control equipment.

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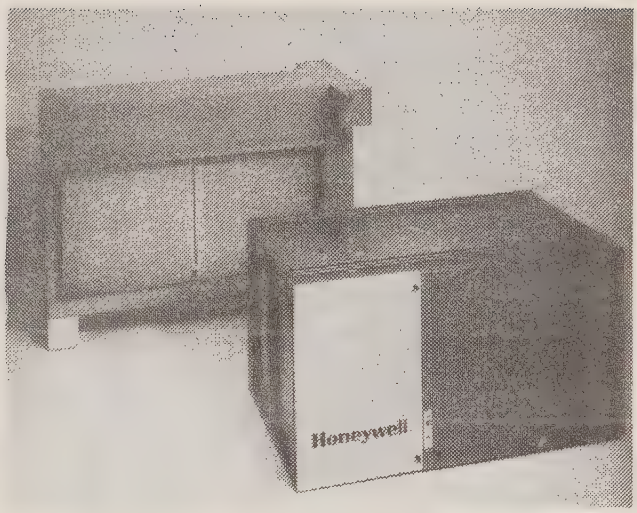
Electronic Air Cleaners
Models available for the removal of dust, pollen, oil and ink mist, tobacco smoke, welding fume and many other industrial airborne particulates.



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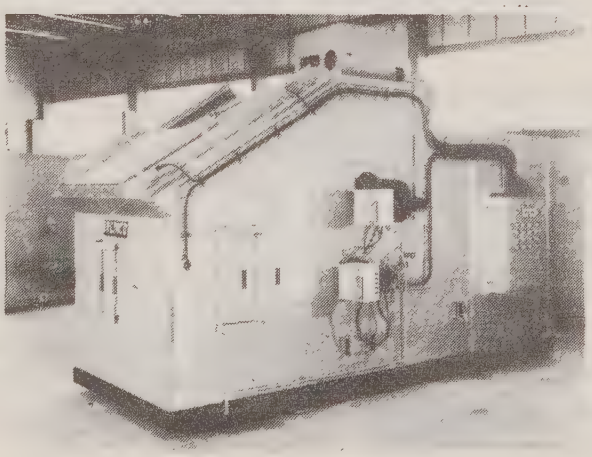
INCINCO



Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

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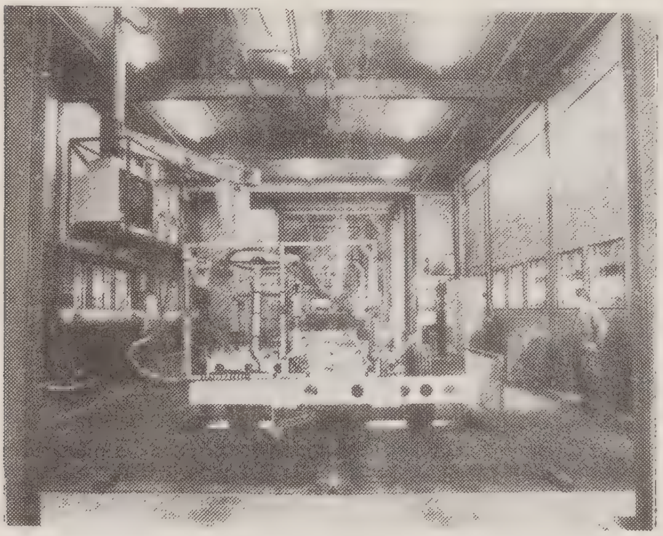

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In the UK, services are offered from Birmingham and London, while overseas companies in the group operate from Singapore, Malaysia, South Africa and Holland. The group's services include atmospheric pollution studies (of solvents, dusts, asbestos, metals and fumes) with surveys and analysis undertaken, liaison with HSE, EMAS and other regulating bodies, and preparation of safe handling procedures for dangerous materials. Examination, survey and design of remedial measures for contaminated sites including assessment of hazards and supervision of remedial work. A similar service is available for water and effluent problems; also analysis of foodstuffs, beverages, water, chemicals, pharmaceuticals, fuels and soil. The group is expanding into new fields: energy conservation, virology and EIA.

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Lodge-Cottrell Limited provide complete Gas Cleaning Plants for the removal of dust and fumes from gases resulting from industrial processes and in particular those emanating from cement manufacture, iron and steel production, power generation from solid fossil fuel boilers and municipal incineration.

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Manufacturers of Industrial Incinerators for the disposal of Solid and Liquid Waste. Capable of destroying 100% Plastics and Rubbers. No fuel required for continuous combustion with many waste products. Generates hot water, reducing energy costs. Refractories used only on Primary Chamber Floor and Doors.

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Manufacturers of equipment for the control of environmental pollution with particular emphasis on atmospheric dust control. The Nailsea range includes "Pnu-Jet" reverse pulse bag filters; variable throat Venturi scrubbers; and "Rainmaster" wet suppression equipment. Applications throughout industry, (quarries, chemical, process, iron, steel etc.) All Nailsea installations carry the guarantee that they will cope with the requirements of the Alkali Act.

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Nalfloc provides a wide range of services, equipment and specialty chemicals for water and effluent treatment, for oil and petroleum industry, for paper making, for the metal industry, for the marine world, and for general process uses throughout industry.

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Domestic Solid Smokeless Fuels and Industrial Chars, produced at three Plants, Comrie, Nr. Dunfermline, Scotland; Ollerton, Nottinghamshire and Coalville, Leics.

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London: 17/27 Garratt Lane,
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tel: 01-874 6491
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Peabody Holmes

Peabody Holmes provide total capability in industrial atmospheric pollution control. This means design, manufacture, erection and commissioning of a comprehensive range of plant including electrostatic precipitators, venturi and impingement plate scrubbers, fabric filters and multi-cell cyclones. Other equipment includes incinerators for the destruction of poisonous or objectionable liquids or gases from industrial processes. Oil, gas, pulverised fuel and combined fuel burners.

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Nor-Ray-Vac Integrated System
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From 40,000 BTU (12 Kw) to 15,000,000 (5,000 Kw) in multiples of 40,000 (12 Kw) or 60,000 (18 Kw)

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Comprehensive sets of parts facilitate rapid and economical site work.

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Control by thermostat and a time clock.

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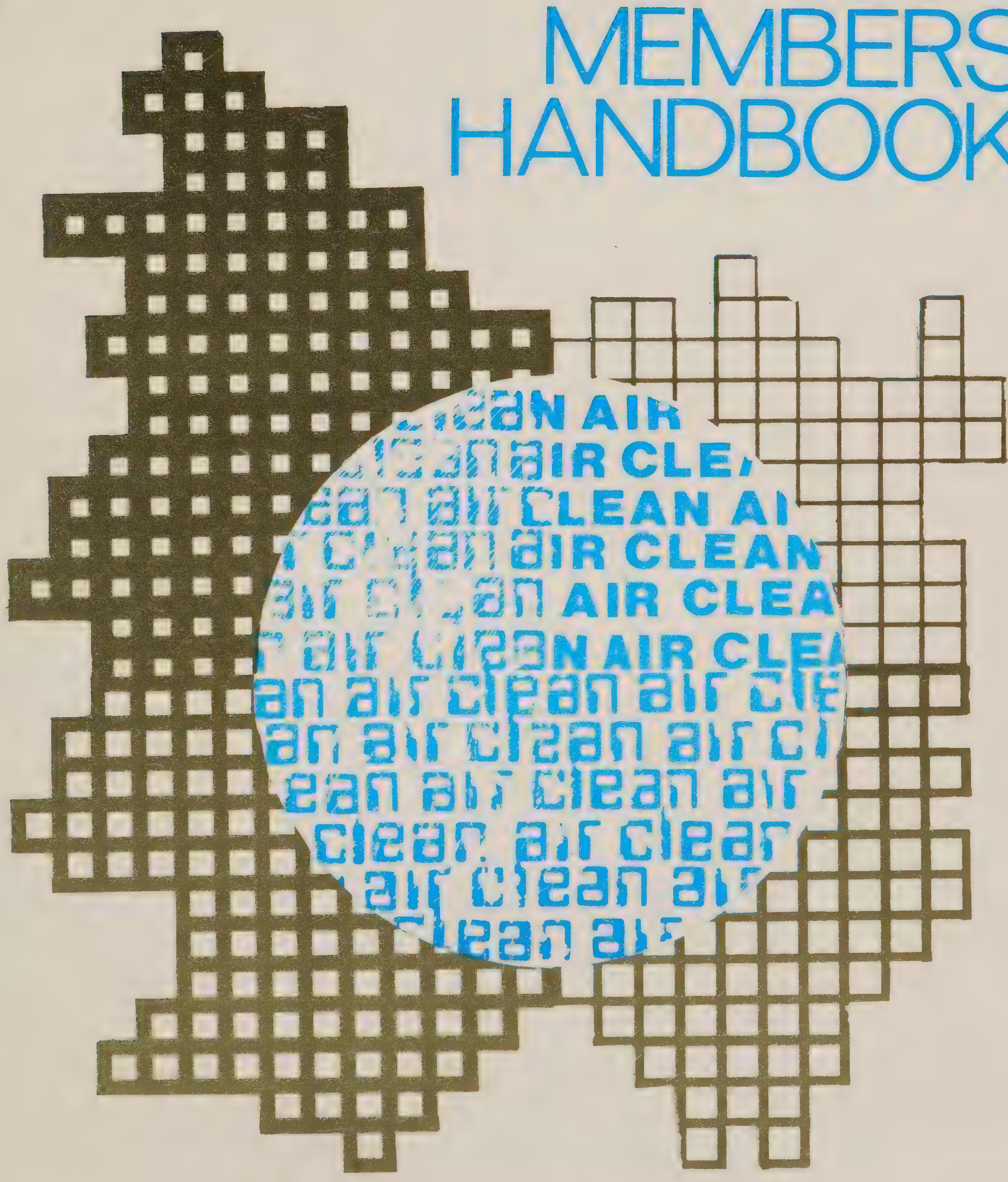
MEMBERS HANDBOOK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clean air CLEAN AIR
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MEMBERS HANDBOOK

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NATIONAL SOCIETY FOR CLEAN AIR

The National Society for Clean Air (NSCA) is a non-governmental voluntary organisation and a registered charity. It is one of the oldest environmental groups in the UK (foundation: the Coal Smoke Abatement Society of 1899). It has excellent and long-established contacts with central/local government, with government agencies, with professional bodies, with industry, with other environmental groups, and with the press. It is a founder member of the International Union of Air Pollution Prevention Associations, and provides the Secretariat for the Union. It is an Associate Member of the International Association Against Noise.

THE SOCIETY'S MEMBERSHIP includes private individuals, local authorities (metropolitan, district and county councils), universities and other educational establishments, corporate bodies representing learned and professional institutions, the fuel industries, and other industrial companies.

THE SOCIETY'S OBJECTIVE is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants, having due regard for the implications for other aspects of the environment.

THE SOCIETY'S PRINCIPAL ACTIVITIES ARE:
Organising Conferences and Technical Training Workshops.
Holding national and regional meetings.
Making representations to Government, other Authorities and Industry, both as a consulted body and on its own initiative, on all matters relating to air pollution and noise, including: legislation drafting, statutory controls, standards, technical concerns, local and national issues.
Publishing: conference and technical proceedings, books, reports, papers and educational material. The Society's journal 'Clean Air' is published quarterly.
Operating an Information Service and Library.

ORGANISATION
The Elected Council of the Society, with a number of reporting Committees, governs the organisation and policies of the Society.
An administrative staff, headed by the Secretary General, is employed at the Brighton Headquarters.
The Society has 12 Divisions throughout the UK, which arrange activities and meetings at regional level, and consider local issues. The Divisions each elect their own Councils and Honorary Officers. Members and their representatives automatically become members of the appropriate Division(s).

MEMORANDUM & ARTICLES OF ASSOCIATION AND BYE-LAWS

THE COMPANIES ACTS, 1948 TO 1967
COMPANY LIMITED BY GUARANTEE AND NOT
HAVING A SHARE CAPITAL

MEMORANDUM OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981

1. The name of the Company (hereinafter called "the Society") is "The National Society for Clean Air".
2. The registered office of the Society will be situate in England.
3.(1) The object for which the Society is established is to seek the improvement of the environment by promoting clean air through the reduction of air pollution, noise and other atmospheric contaminants having regard for the implications for other aspects of the environment.

(2) (A) To initiate, assist, promote and encourage the investigation, consideration and discussion of all forms of pollution in order to achieve its reduction or prevention, and to undertake, or support or aid the undertaking of, investigations and research relevant to the causes and effects of pollution and the means to prevent it and to publish the results of such research.

(B) To promote public education in all matters relating to the value and importance of clean air and methods and consequences of air pollution control and forms of pollution control by arranging meetings, publications, exhibitions, the delivery of lectures and addresses, the display of pictures, cinematograph films and models and by other means.

(C) To encourage the adoption of methods to reduce and prevent pollution.

(D) To promote, assist, support, or oppose, as may be consistent with the objects for which the Society is established, any administrative or other measures or proposed measures affecting pollution.

(E) To initiate, support and co-operate with others in proposals and activities calculated to assist the promotion of the Society's objects.

(F) To establish, and support or aid in the establishment and support of any charitable association or institutions and to subscribe or guarantee money for charitable purposes in any way connected with the Society's purposes or calculated to further its objects.

(G) To purchase, take on lease or in exchange, hire or otherwise acquire any real or personal property and any rights or privileges which the Society may think necessary or convenient for the promotion of its objects, and to construct, maintain and alter any buildings or erections necessary or convenient for the work of the Society.

(H) To sell, let, mortgage, dispose of or turn to account all or any of the property or assets of the Society as may be thought expedient with a view to the promotion of its objects.
(I) To undertake and execute any trusts which may lawfully be undertaken by the Society and may be conducive to its objects.
(J) To borrow or raise money for the purposes of the Society and subject to this Memorandum of Association on such terms and on such security as may be thought fit.
(K) To invest the moneys of the Society not immediately required for its purposes in or upon such investments, securities or property as may be thought fit, but so that moneys subject or representing property subject to the jurisdiction of the Charity Commissioners for England and Wales shall only be invested in such securities and with such sanction (if any) as may for the time being be prescribed by law.
(L) If and when considered advisable, to take all such measures as may be necessary to convert the Society into a body specially incorporated by Royal Charter or otherwise, or to secure the creation of a new body so incorporated with the object of carrying out the purposes of the Society and continuing the work thereof.
(M) To take all such other steps as will further the attainment of the above objects or any of them.
PROVIDED FIRST that, notwithstanding anything contained in the preceding paragraphs of this Clause, the objects of the Society shall be restricted to such only of the objects aforesaid as are according to the law of England exclusively charitable.
PROVIDED SECONDLY that the Society's objects shall not extend to regulation of relations between workers and employers or organisations of workers and organisations of employers.
PROVIDED THIRDLY that in case the Society shall take or hold any property subject to the jurisdiction of the Charity Commiessioners for England and Wales or the Secretary or State for Education and Science, the Society shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law and as regards any such property the Council of the Society (hereinafter called "the Council") shall be chargeable for any such property that may come into their hands and shall be answerable and accountable for their own acts, receipts, neglects and defaults, and for the due administration of such property in the same manner and to the same extent as the Council would have been if no incorporation had been effected, and the incorporation of the Society shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Secretary of State for Education and Science over the Council but they shall as regards any such property be subject jointly and severally to such control or authority as if the Society were not incorporated. In case the Society shall take or hold any property which may be subject to any trusts, the Society shall only deal with the same in such manner as allowed by law, having regard to such trusts.

4. The income and property of the Society, whencesoever derived, shall be applied solely towards the promotion of the objects of the Society as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly, by way of dividend

bonus or otherwise howsoever by way of profit, to the members of the Society.

PROVIDED that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration and pension to any officer or servant of the Society in return for any services actually rendered to the Society, nor prevent the payment of interest at a rate of 6% per annum on money lent or reasonable and proper rent for premises demised or let by any member to the Society nor prevent the gratuitous distribution among, or sale at a discount to, subscribers to the funds of the Society of any books or other publications, whether published by the Society or otherwise, relating to all or any of the Society's objects above set forth; but so that no member of the Council shall be appointed to any salaried office of the Society or any office of the Society paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Society to any member of the Council, except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Society; provided that the provision last aforesaid shall not apply to any payment to any company of which a member of the Council may be a member, and in which such member shall not hold more than one hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the provisions of the Memorandum or Articles of Association of the Society for the time being in force unless the same shall have been previously submitted to and approved by the Department of Trade.
6. The fourth and fifth paragraphs of this Memorandum of Association contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of section 19(1) of the Companies Act 1948.
7. The liability of the members is limited.
8. Every member of the Society undertakes to contribute to the assets of the Society, in the event of the same being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the Society contracted before he ceases to be a member, and of the costs, charges and expenses of winding-up, and for the adjustment of the rights of the contributories among themselves, such amount as may be required not exceeding 5s(25p).
9. If upon the winding up or dissolution of the Society there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the members of the Society, but shall be given or transferred to some other charitable institution or institutions having objects similar to the objects of the Society, and which shall prohibit the distribution of its or their members to an extent at least as great as is imposed on the Society at or before the time of dissolution, and if and so far as effect cannot be given to such provision, then to some charitable object.

THE COMPANIES ACTS 1948 to 1967
COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL

ARTICLES OF ASSOCIATION
OF
THE NATIONAL SOCIETY FOR CLEAN AIR

Adopted by Special Resolution 29 March 1974 and amended by Special Resolution on 5 October 1981.

DEFINITIONS

1. In these presents the words standing in the first column of the Table below shall bear the meaning set opposite to them respectively in the second column thereof, if not inconsistent with the subject or context:-

Words	Meaning
The Act of 1948	The Companies Act, 1948.
The Act of 1967	The Companies Act, 1967.
The Acts	The Companies Act, 1948 and the Companies Act, 1967.
The Bye Laws	The Bye Laws of the Society from time to time in force.
These presents	These Articles of Association.
The Society	The above named Society.
The Council	The Council for the time being of the Society.
The Office	The registered office of the Society.
The Seal	The common seal of the Society.
The United Kingdom	Great Britain and Northern Ireland.
Month	Calendar month.
In writing	Written printed or lithographed, or partly one and partly another, and other modes of representing or reproducing words in a visible form.
The Secretary General	The Secretary for the time being or any person appointed to perform the duties of Secretary of the Society, in accordance with the Acts.
Representative of a member	A Representative of a Local Authority or Corporate Member appointed under Article (4d) or (e), and whose appointment has been duly

	notified to the Secretary General.
Delegate	A Representative of a Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member to represent its local interests in the particular Division in which its Branch or Section is situated.

And words importing the singular number only shall include the plural number, and vice versa.
Words importing the masculine gender only shall include the feminine gender and vice viersa and
Words importing persons shall include corporations.
Subject as aforesaid, any words or expressions defined in the Acts or any statutory modification thereof in force at the date on which these presents become binding on the Society shall, if not inconsistent with the subject or context, bear the same meanings in these presents.

MEMBERSHIP

2. The number of members with which the Society is registered is unlimited.
3. The provisions of section 110 of the Act of 1948 shall be observed by the Society and every member of the Society, other than Honorary Members, shall either make a written request to become a member (which request may be included in his application for membership made in accordance with Article 4(i) of these presents) or sign a written consent to become a member or sign the register of members on becoming a member.
4.(a) The members of the Society shall be the persons who are Members of the Society and such other persons as the Council shall from time to time elect or recommend to the Soeity for election.
(b) The Society shall consist of a President, Vice-Presidents, Secretary General, Honorary Members, Individual Members, Local Authority Members, Corporate Members and Student Members. The Society may also have a Patron or Patrons as hereinafter mentioned.

Classes of Membership

INDIVIDUAL MEMBERS

(c)(i) Any Individual who supports the objects of the Society shall be eligible for admission as an Individual Member.
(ii) On the attainment of the age of 65, Individual Members may, at the discretion of the Council retain their membership as Individual Members of the Society on payment of a fixed sum as prescribed in the Bye-Laws of the Society.

LOCAL AUTHORITY MEMBERS

(d)(i) Any Local Authority supporting the objects of the Society shall be eligible for admission as a Local Authority Member. A Local Authority Member shall be entitled from time to time to appoint, and to revoke the appointment of not more than four Representatives. Each of the Representatives of a Local Authority Member shall be entitled to exercise on its behalf the same rights as an Individual Member and (if not himself an Individual Member) shall, by virtue of his appointment to any office of the Society or to membership of the Council.

(ii) For the purpose of this Article, the designation "Local Authority" shall be deemed to include "Health Authorities" and "Water Authorities" or such other like authorities as the Council shall from time to time admit for membership.

CORPORATE MEMBERS

(e)(i) Any Society, Institution, Company, Association, Board or Group or educational establishment being in every case an incorporated body supporting the objects of the Society shall be eligible for admission as a Corporate Member. A Corporate Member shall be entitled to appoint Representatives according to subscription as set out in the Bye-Laws, and any such Representatives shall be entitled to exercise on its behalf the same rights as an Individual Member, and (if not himself an Individual Member) shall, by virtue of his appointment as such Representative, be eligible for election or appointment to any office of the Society or to membership of the Council.

(ii) An unincorporated body (including a firm) may not as such become a member of the Society, but it if desires to obtain the advantages of membership it may nominate Representatives (determined according to subscription as aforesaid) to apply in its name for membership and exercise the rights of membership on its behalf. Every person so applying for membership shall be subject to the same rules and regulations as to admission and otherwise as any person not so nominated, and shall if admitted have the same rights and be subject to the same liabilities and incidents as any Individual Member except that (i) such persons shall be liable to pay such annual subscription as is appropriate to a Corporate Member (ii) if his nomination is revoked by such body he shall cease to be a member. References in these presents or in the Bye-Laws to Corporate members shall as far as the context admits include references to unincorporated bodies having nominated representative members provided always that no such body shall as such have any rights of voting or otherwise or be deemed for any purpose to be a member of the Society.

SUSTAINING MEMBERS

(f) Any member who subscribes not less than the sum as prescribed in the Bye-Laws for this class of membership shall be eligible for admission as a Sustaining Member.

HONORARY MEMBERS

(g) Individuals who have rendered outstanding service in promoting the objects of the Society shall be eligible for admission as Honorary Members and such persons, being duly admitted shall enjoy all the privileges of membership (including the right to vote) except that they shall not by virtue of their Honorary Membership alone be deemed to be members of the Society for the purpose of registering within the meaning of Article 3 of these presents or be entered on the Register of members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

STUDENT MEMBERS

(h) Any bona fide non-graduate student pursuing a course of study at school, college or university shall be eligible for admission as a Student Member on payment of the subscription prescribed in the Bye-Laws.

APPLICATION FOR MEMBERSHIP

(i) Every person wishing to join the Society and eligible for election as a Member, must apply in writing and shall deposit with such application the first annual subscription which shall be returned in the event of non-election.

RESIGNATION OF MEMBERS

(j)(i) Every member duly elected shall continue as such until he shall resign by notice in writing, to the Secretary General, such notice being accompanied by any monies due to the Society.

(ii) The Council shall have the power to remove any member:

(a) whose annual subscription has remained unpaid for two successive years, or

(b) who, in the opinion of the Council has acted in a manner prejudicial to the interests and objects of the Society or has behaved in such a manner as to render his further membership detrimental to the interests of the Society, or

(c) at its sole discretion without assigning any reason therefore.

Provided that in every case the Member concerned shall have the opportunity to make representations defending his conduct in writing to the Council.

ANNUAL SUBSCRIPTIONS

(k) The Council shall make Bye-Laws from time to time to fix annual subscriptions payable by the various classes of Members. The Bye-Laws shall be confirmed by the Society in General Meeting.

ANNUAL GENERAL MEETING

5. The Society shall hold a General Meeting in every calendar year as its Annual General Meeting at such time and place as may be determined by the Council, and shall specify the Meeting as such in the notices calling it, provided that every Annual General Meeting shall be held not more than fifteen months after the holding of the last preceding Annual General Meeting.

EXTRAORDINARY GENERAL MEETINGS

6. All General Meetings, other than Annual General Meetings, shall be called Extraordinary General Meetings.

7. The Council may whenever they think fit convene an Extraordinary General Meeting, and Extraordinary General Meetings shall also be convened on such requisition, or in default may be convened by such requisitions, as provided by section 132 of the Act of 1948.

NOTICE OF MEETINGS

8. Twenty-one days' notice in writing at the least of every Annual General Meeting and of every Meeting convened to pass a Special Resolution, and

fourteen days' notice in writing at the least of every other General Meeting (exclusive in every case both of the day on which it is served or deemed to be served and of the day for which it is given), specifying the place, the day and the hour of meeting, and in the case of business other than routine business the general nature of that business, shall be given in manner hereinafter mentioned to such persons (including the Auditors) as are under these presents or under the Act entitled to receive such notices from the Society; but with the consent of all the members having the right to attend and vote thereat, or of such proportion of them as is prescribed by the Act in the case of meetings othern than Annual General Meetings, a meeting may be convened by such notice as those members may think fit.

9. The accidental ommissions to give notice of a meeting to, or the non-receipt of such notice by, any person entitled to receive notice thereof shall not invalidate the proceedings at such meetings.

PROCEEDINGS AT GENERAL MEETINGS

10. Routine business shall mean and include only business transacted at an Annual General Meeting of the following classes, that is to say:-

    (a) Reading and considering the accounts and balance sheet and the annual reports of the Council and the Auditors.

    (b) Appointing Auditors and fixing their remuneration.

    (c) Receiving the results of the elections of the Council and other Officers.

11. No business shall be transacted at any General Meeting unless a quorum is present when the meeting proceeds to business. Save as herein otherwise provided ten members or Representatives of members personally present shall be a quorum.

12. If within half an hour from the time appointed for the holding of a General Meeting a quorum is not present, the meeting, if convened on the requisition of members, shall be dissolved. In any other case it shall stand adjourned to the same day in the next week, at the same time and place, or at such other place as the Council may determine, and if at such adjourned meeting a quorum is not present within half an hour from the time appointed for holding the meeting the members present shall be a quorum.

13. The Chairman (if any) of the Council shall preside as Chairman at every General Meeting, but if there be no such Chairman, or if at any meeting he shall not be present within fifteen minutes after the time appointed for holding the same, or shall be unwilling to preside, the members present shall choose one of the Deputy Chairmen or some other member of the Council, or if no such member be present, or if all the members of the Council present decline to take the chair, they shall choose some member or Representative of a member of the Society who shall be present to preside.

14. The Chairman may, with the consent of any meeting at which a quorum is present (and shall if so directed by the meeting) adjourn the meeting from time to time, and from place to place, but no business shall be transacted at any adjourned meeting other than business which might have been transacted at the meeting from which the adjournment took place. Whenever a meeting is adjourned for thirty days or more, notice of the adjourned meeting shall be given in the same manner as of an original meeting. Save as aforesaid, the members shall not be entitled to any

notice of an adjournment, or of the business to be transacted at an adjourned meeting.

15. At any General Meeting a resolution put to the vote of the meeting shall be decided on a show of hands, unless a poll is, before or upon the declaration of the result of the show of hands, demanded by the Chairman or by at least five members or Representatives of members present in person or by proxy, or by members or Representatives of members present in person or by proxy and representing not less than one-tenth of the total voting rights of all the members and Representatives of members having the right to vote at the meeting, and unless a poll be so demanded a declaration by the Chairman of the meeting that a resolution has been carried, or carried unanimously or by a particular majority or lost, or not carried by a particular majority, and an entry to that effect in the minute book of the Society shall be conclusive evidence of the fact without proof of the number or proportion of the votes recorded in favour of or against that resolution. The demand for a poll may be withdrawn.

16. Subject to the provisions of Article 17, if a poll be demanded in manner aforesaid, it shall be taken at such time and place, and in such manner, as the Chairman of the meeting shall direct, and the result of the poll shall be deemed to be the resolution of the meeting at which the poll was demanded.

17. No poll shall be demanded on the election of a Chairman of a meeting or on any question of adjournment.

18. In the case of an equality of votes, whether on a show of hands or on a poll, the Chairman of the meeting shall be entitled to a second or casting vote.

19. The demand of a poll shall not prevent the continuance of a meeting for the transaction of any business other than the question on which a poll has been demanded.

VOTES OF MEMBERS

20. Subject as hereinafter provided, every member shall have one vote. A Local Authority Member or Corporate Member shall have one vote for each of its Representatives which shall be exercisable by such Representatives in person.

21. Except in accordance with Articles 4(g) and 29, and unless the Council otherwise determine, no member other than a member duly registered, who shall have paid every subscription and other sum (if any) which shall be due and payable to the Society, in respect of his membership, shall be entitled to vote on any question either personally through its Representatives or by proxy, or as a proxy for another member at any General Meeting.

22.(a) Votes may be given on a poll either personally or by proxy. A proxy need not be a member.

(b) The instrument appointing a proxy shall be in writing under the hand of the appointer, or his attorney duly authorised in writing, or if such appointer is a corporation under its common seal, if any, and if none, then under the hand of some officer duly authorised in that behalf. In the case of a Representative of a member any proxy shall be appointed by the member itself or its attorney and not by the Representative.

(c) The instrument appointing a proxy and the power of attorney or other authority (if any) under which it is signed or a notarially certified or office copy thereof shall be deposited at the office not less than 48 hours before the time appointed for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote, or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll, and in default the instrument of proxy shall not be treated as valid. No instrument appointing a proxy shall be valid after the expiration of 12 months from the date of its execution.

(d) A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or revocation of the proxy or of the authority under which the proxy was executed, provided that no intimation in writing of the death, insanity or revocation as aforesaid shall have been received at the office before the commencement of the meeting or adjourned meeting at which the proxy is used.

(e) An instrument appointing a proxy shall be in the common form or in such other form as the Council may accept, and shall be deemed to confer authority to demand or join in demanding a poll.

HONORARY OFFICERS

23. The officers of the Society shall consist of a President, Honorary Treasurer, Chairman and two Deputy Chairmen of the Council, the Immediate Past Chairman of the Council and may also include a Patron or Patrons as hereinafter mentioned.

PATRON

24. The Council may accept the patronage of any person or persons and shall thereupon elect such person or persons to be the Patron or Patrons of the Society for life or for such period as the Council may determine.

PRESIDENT

25. The President shall be elected annually by the Society under the Bye-Laws. No person shall hold the office of President for more than two years in succession.

HONORARY TREASURER

26. The Honorary Treasurer shall be elected annually by the Society under the Bye-Laws. The Honorary Treasurer shall be responsible for the uninvested funds of the Society and he shall cause all necessary and proper accounts to be kept in accordance with Article 47 hereof.

VICE-PRESIDENTS

27.(a) Any person may be elected by the Society as a Vice-President providing that he or she is a person of distinction in an appropriate field who is likely to promote actively the work of the Society.

(b) Vice-Presidents shall normally be elected for a single term of three years

(c) Vice-Presidents shall not exceed six in number nor more than two be elected annually.

CHAIRMAN AND DEPUTY CHAIRMEN

28. The Chairman and Deputy Chairmen shall be elected annually by the Council from its own members at its first meeting after the Annual General Meeting.

29. The Patron or Patrons (if any) of the Society, the President of the Society, and the Vice-Presidents shall enjoy all the rights of membership

(including the right to vote) during their term of office except that they shall not by virtue of their office alone be deemed to be members of the Society for the purposes of registration within the meaning of Article 3 of these presents or be entered on the Register of Members of the Society or be entitled to vote on a special or extraordinary resolution or be under any liability for the debts and liabilities of the Society.

THE COUNCIL

30. Subject as hereinafter provided, the members of Council shall not be less than 20 in number. The Society may, by Ordinary Resolution from time to time, increase or reduce the minimum number of members of the Council. The Council may act notwithstanding any vacancies in their body, but if the members of the Council shall be reduced in number to less than that required for a quorum for their meetings, they may act as the Council for the purpose only of summoning a general meeting of the Society.

31. The Council shall consist of the Patron or Patrons (if any), the President, the immediate Past President, the Honorary Treasurer, the immediate past Chairman, a number of Divisional Representatives elected as hereinafter provided; and not more than a like number of other persons consisting of Representatives of National or similar organisations which are Corporate Members of the Society, at the invitation of the Council. No person other than a member of the Society or a Representative of a member may be appointed a member of the Council. The Council may from time to time and at any time appoint any member of the Society or a Representative of a member as a member of the Council, either to fill a casual vacancy or by way of addition to the Council. Any member so appointed shall retain his office only until the next Annual General Meeting, but he shall be eligible for re-election or re-appointment.

The term "National or similar organisation" shall refer to any institution, association, society or board or other similar organisation, the activities of which extend to the whole of the United Kingdom, or to England, Scotland, Wales or Northern Ireland, and which is accepted by the Council as a National or similar organisation for the purposes of these presents.

APPOINTMENT AND RETIREMENT OF MEMBERS OF THE COUNCIL

32.(a) The members and Representatives of members of each Division shall elect annually from among their number Representatives to be members of the Council. Divisional Representatives shall be elected to the Council for a period of three years. One-third of the elected members shall retire in rotation each year; such members shall be eligible for re-election. The number of Divisional Representatives to be elected by each Division shall each year be determined by the Council.

(b) A National or similar organisation shall be entitled to nominate annually one Representative for Membership of the Council under Article 31.

(c) The elected members of the Council shall (unless re-elected) vacate office after three years in accordance with the provisions of Article 32(a).

33. The Office of a member of the Council shall be vacated:-

(a) If he ceased to be a member or a Representative of a member of the Society;
(b) If by notice in writing to the Society he resigns his office;
(c) If a receiving order is made against him or he make any arrangement or composition with his creditors;

(d) If he becomes of unsound mind;
(e) If he ceases to hold office by reason of any order made under Section 188 of the Act of 1948;
(f) If he is removed from office by a Resolution duly passed pursuant to Section 184 of the Act.

34. A member of the Council who has attained the age of seventy shall be eligible for election and the provision of subsections (1) and (2) of Section 185 of the Act of 1948 shall not apply.

POWERS OF THE COUNCIL

35. The Management of the Society shall be in the hands of the Council who may pay all expenses incurred in forming and registering the Society and may exercise all such powers of the Society as are not by the Act of 1948 or by these presents required to be exercised by the Society in General Meeting, subject nevertheless to any regulations of these presents, to the provisions of the Act of 1948, and to such regulations (not inconsistent with the aforesaid regulations or provisions) as may be prescribed by the Society in General Meeting, but no regulations so made by the Society shall invalidate any prior act of the Council which would have been valid if such regulations had not been made. The general powers given by this Article shall not be limited or restricted by any special authority or power given to the Council by any other Article.

36. (i) The Council shall, as necessary, make and recommend the adoption, alteration and revocation the Bye-Laws for the regulation of the Society and otherwise for the furtherance of the purposes for which the Society is established, provided that the Bye-Laws are not repugnant to the Memorandum of Association or these presents. Such recommendations of the Council shall be laid before the Society at the following Annual General Meeting or at an Extraordinary General Meeting called for that purpose for adoption, if thought fit, by Ordinary Resolution. The Bye-Laws for the time being in force shall be binding upon all members until varied or set aside as hereinafter provided. It is expressly declared that, without prejudice to the powers of the Society to adopt Bye-Laws on other matters, the following shall be deemed to be matters which (so far as not governed by, and subject always to the provisions of, these presents) may be governed by Bye-Laws within the meaning of this article, that is to say:

(a) As to entrance fees (if any) payable in respect of membership of the Society.
(b) As to the annual, quarterly or other subscriptions or payments to be payable by the members of the Society.
(c) As to the rights and privileges to be accorded to, and the qualifications, restrictions and conditions to be imposed on, members of the Society.
(d) As to Committees of members in connection with various branches of the Society's activities, and as to the appointment, removal, qualification, disqualification, duties, functions, powers and privileges of members of such Committees.
(e) As to the manner in which the Elections of Officers and Council members shall be conducted.
(f) As to the Geographical Divisions of the Society for electoral purposes, and the setting up and regulation of Divisional Councils and their membership, duties, functions and powers.

(ii) The Council shall have power to issue Standing Orders from time to time regulating the appointment of various committees from Members of the Society or otherwise as provided herein for the better administration of the business of the Council and directing the terms of reference of such committees and the procedure governing the transaction of their business.

(iii) Any committee appointed in accordance with this article shall have power to adopt persons to act as members of the committee whose qualifications or experience will assist the committee in its work, but the number of persons so adopted shall not exceed one-third of the membership of the committee excluding adopted members.

SECRETARY GENERAL

37. (i) The Secretary General shall be appointed by the Council for such time at such remuneration and upon such conditions as they think fit, and any person so appointed may be removed by them. The provisions of Section 177 and 179 of the Act of 1948 shall apply and be observed.

(ii) The Secretary General shall from time to time submit financial statements at the request of the Council. It shall be his duty, under the direction of the Council to conduct the correspondence of the Society, to attend meetings of the Council and Committees thereof, to take minutes of the proceedings of such meetings, to superintend the publication of such papers as the Council may direct, engage and be responsible for all persons employed under him, and, in general, conduct the ordinary business of the Society in accordance with the Memorandum and Articles of Association.

(iii) The Council may from time to time by resolution appoint an assistant or deputy Secretary General, and any person so appointed may act in place of the Secretary General if there be no Secretary General or no Secretary General capable of acting.

THE SEAL

38. The Council shall provide a Common Seal of the Society and make rules for the safe custody and use thereof, and it shall only be used by the Authority of the Council previously given and in the presence of one member of the Council at least, and every such instrument shall be countersigned by the Secretary General or some other person duly authorised by the Council.

PROCEEDINGS OF THE COUNCIL

39. The Council may meet together for the dispatch of business, adjourn and otherwise regulate their meetings as they think fit, and determine the quorum necessary for the transaction of business. Unless otherwise determined, ten shall be a quorum. Questions arising at any meetings shall be decided by a majority of votes. In case of an equality of votes the Chairman shall have a second or casting vote.

40. Five members of the Council may, and on the request of five members of the Council the Secretary General shall, at any time, summon a meeting of the Council by notice served upon the several members of the Council. A member of the Council who is absent from the United Kingdom shall not be entitled to notice of a meeting.

41. The Chairman shall be entitled to preside at all meetings of the Council at which he shall be present, but if no such Chairman be elected, or if at any meeting the Chairman be not present within five minutes after

the time appointed for holding the meeting and willing to preside, the members of the Council present shall choose one of the Deputy Chairmen and failing them one other of their number to be Chairman of the Meeting.

42. A meeting of the Council at which a quorum is present shall be competent to exercise all the authorities, powers and discretions by or under the regulations of the Society for the time being vested in the Council generally.

43. The Council may delegate any of their powers to Committees consisting of such member or members of the Council as they think fit, and any Committee so formed shall, in the exercise of the power so delegated, conform to any regulations imposed on it by the Council. The meetings and proceedings of any such Committee shall be governed by the provision of these presents for regulating the meetings and proceedings of the Council so far as applicable and so far as the same shall not be superceded by any Bye-Laws made by the Council.

44. All acts bona fide done by any meeting of the Council or any Committee of the Council, or by any person acting as a member of the Council, shall notwithstanding it be afterwards discovered that there was some defect in the appointment or continuance in office of any such member or person acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed or had duly continued in office and was disqualified to be a member of the Council.

45. The Council shall cause proper minutes to be made of all appointments of officers made by the Council and of the proceedings of all meetings of the Society and of the Council and of Committees of the Council, and all business transacted at such meetings, and any such minutes of any meetings, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be sufficient evidence without any further proof of the facts therein stated.

46. A resolution in writing signed by a majority of the members for the time being of the Council or of any Committee of the Council who are entitled to receive notice of a meeting of the Council or of such committee shall be as valid and effectual as if it had been passed at a meeting of the Council or of such committee duly convened and constituted.

ACCOUNTS

47. The Council shall cause proper books of account to be kept with respect to:

(a) all sums of money received and expended by the Society and the matters in respect of which such receipts and expenditure take place;
(b) all sales and purchases of goods by the Society; and
(c) the assets and liabilities of the Society.

Proper books shall not be deemed to be kept if there are not kept such books of account as are necessary to give a true and fair view of the state of affairs of the Society and to explain its transactions.

48. The books of account shall be kept at the office, or subject to section 147(3) of the Act of 1948 at such other place or places as the Council shall think fit, and shall always be open to the inspection of the members of the Council.

49. The Council may from time to time impose reasonable restrictions as to the time and manner of the inspection by the members (other than members

of the Council) or by Representatives of members of the accounts and books of the Society, or any of them, and subject to such restrictions the accounts and books of the Society shall be open to the inspection of such members or Representatives of members at all reasonable times during business hours.

50. The Council shall from time to time in accordance with sections 148, 150 and 157 of the Act of 1948 cause to be prepared and laid before the Society in General Meeting, such income and expenditure accounts, balance sheets and group accounts (if any) and reports as are referred to in those Sections. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Society in General Meeting, together with a copy of the Auditors report, shall not less than twenty-one days before the date of the meeting be sent to every member of, and holder of debentures of, the Society. Provided that this Article shall not require a copy of those documents to be sent to any person of whose address the Society is not aware or to more than one of the joint holders of any debentures.

AUDIT

51. Once at least in every year the accounts of the Society shall be examined and the correctness of the income and expenditure account and balance sheet ascertained by one or more properly qualified Auditor or Auditors.

52. Auditors shall be appointed and their duties regulated in accordance with sections 159 to 162 of the Act of 1948 the members of the Council being treated as the Directors mentioned in those sections.

NOTICES

53. A notice may be served by the Society upon any member, either personally or by sending it through the post in a prepaid letter, addressed to such member at his registered address as appearing in the register of members.

54. Any member described in the register of members by an address not within the United Kingdom, who shall from time to time give the Society an address within the United Kingdom at which a notice may be served upon him, shall be entitled to have notices served upon him at such address, but, save as aforesaid and as provided by the Act, only those members who are described in the register of members by an address within the United Kingdom shall be entitled to receive notices from the Society.

55. Any notice, if served by post, shall be deemed to have been served on the day following that on which the letter containing the same is put into the post, and in proving such service it shall be sufficient to prove that the letter containing the notice was properly addressed and put into the post office as a prepaid letter.

DISSOLUTION

56. Clause 9 of the Memorandum of Association of the Society relating to the winding up and dissolution of the Society shall have effect as if the provisions thereof were repeated in these Articles.

BYE-LAWS

Adopted by Ordinary Resolution dated the 29 March 1974 and as amended on 13 October 1976, 6 July 1977, 20 July 1978, 16 July 1980 and 5 October 1981.

DEFINITIONS

1. The Definitions section of the Articles of Association of the Society shall be deemed to be incorporated in and applied to these presents.

SUBSCRIPTIONS

2. Annual Subscriptions shall be as hereinafter provided. A first annual subscription shall be made on application for Membership and shall continue in force until the first day of April of the following year, when it shall be renewable.

(a) INDIVIDUAL MEMBERS

(i) The Annual subscription payable by an Individual Member shall be not less than Seven Pounds. On attainment of the age of 65 on payment of the sum of Fourteen Pounds, Individual Members may, at the discretion of the Council retain their membership of the Society in perpetuity, but always subject to the Council's rights of removal.

(ii) Individuals may on payment of not less than One Hundred and Forty Pounds become Life Members of the Society.

(b) LOCAL AUTHORITY MEMBERS

The annual subscription payable by a Local Authority shall be not less than as follows. For local authorities with a population of:

Less than 100,000	£98
100,001 to 250,000	£120
250,001 to 500,000	£145
500,001 to 1,000,000	£190
For each additional 500,000 or part thereof	£20

(c) CORPORATE MEMBERS and unincorporated bodies appointed in accordance with Article 4(e)(ii).

The annual subscription payable by Corporate Members and Unincorporated bodies shall be not less than as follows:

(i) Small local civic societies, colleges, schools and similar organisations – £12

(ii) Regional and national societies and similar organisations, consultants and small industrial and commercial firms – £70

(iii) Industrial organisations – £98.

(d) Sustaining Members

The annual subscription for Sustaining Members shall be not less than £200.00.

(e) Membership – Special Cases

The Council shall have power to elect any applicant for Membership to an appropriate grade of Membership, on such special terms as to subscription or otherwise as after considering any reasons for so doing stated by such applicant the Council may think proper.

REPRESENTATIVES OF MEMBERS

3(a)Local Authority Members
Each Local Authority Member shall be entitled to appoint not more than five Representatives.

(b)CORPORATE MEMBERS

(i) Corporate Members paying a subscription of £12 per annum shall each be entitled to appoint one representative
(ii) Corporate Members paying a subscription of £70 per annum shall each be entitled to appoint three representatives
(iii) Corporate Members paying a subscription of £98 or more per annum shall each be entitled to appoint five representatives.
(iv) A Corporate Member having a Branch or Section situated in a Division other than that Division in which the address of the Corporate Member is situated shall, in such Division, be entitled to appoint Delegates to participate in the activities of the appropriate Division.

RIGHTS OF MEMBERS

4. Each individual Member, Local Authority Member and Corporate Member and each Representative of a Local Authority Member or Corporate Member, who has paid the appropriate subscription for the current year, shall have the right to:

(i) Nominate Individual Members and Representatives as officers or Members of the Council;
(ii) Be nominated and elected as an Officer or Member of the Council;
(iii) Cast one vote at elections;
(iv) Receive notices of and attend and participate in all meetings of the Society and of the Member's Division;
(v) Move or second, and cast one vote on motions at Meetings of the Society and of the Member's Division;
(vi) Receive free of charge as they are issued the Journal and Members' Handbook of the Society.
(vii) Obtain from the Society, advice and information on questions relating to pollution and its control.

DIVISIONS

5(a)For administrative and electoral purposes the Society shall be divided into geographical Divisions as follows:

1. Scotland
2. Northern Ireland
3. Northern: Cleveland, Cumbria, in part - Allerdale District Council, City of Carlisle and Eden District Council; Durham; Northumberland; Tyne and Wear.
4. North West: Cheshire; Clwydd; Cumbria, in part - Barrow-in-Furness Borough Council, Copeland District Council and South lakeland District Council; Greater Manchester; Gwynedd; Lancashire; Merseyside.
5. Yorkshire and Humberside: Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
6. West Midlands: Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.

7. East Midlands: Cambridgeshire, Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire.
8. Eastern: Essex, Norfolk, Suffolk.
9. London and South East: East Sussex, Greater London, Hertfordshire, Kent, Surrey, West Sussex.
10. Central Southern: Bedfordshire, Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Oxfordshire.
11. South West: Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
12. South and Mid Wales: Wales except for Clwyd and Gwynedd.

(b)Members shall normally be considered as belonging to the Division in which their address, as entered upon the Society's records, is situated. However, members may elect to belong to another Division better suited to their needs.

(c)For the purposes of carrying out activities in a Division, the Members, as hereinafter defined, may elect from among themselves a Divisional Council and its Honorary Officers. A Divisional Council and its Honorary Officers, other than Secretary and Auditors, shall consist only of Members, Representatives and Delegates of Members. The Constitution and activities of a Divisional Council shall be subject to the general approval of the Council which shall pay or make grants for approved expenses.

(d)The Members, Representatives and Delegates of Members, as hereinafter defined, in any town or district within a Division, may, if they so desire, and with the approval of the Council and of their Divisional Council, set up a Branch of the Division and elect Committees and Honorary Officers. The activities of a Branch shall be subject to the general approval and guidance of the Council and of the Divisional Council and the Divisional Council may pay and make grants for approved expenses.

PRESIDENT, VICE-PRESIDENTS, HONORARY MEMBERS AND HONORARY TREASURER

6(a)The President and an Honorary Treasurer shall be elected annually on the recommendation of the Council by the Society at its Annual General Meeting.

(b)Vice-Presidents shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

(c)Honorary Members shall be elected on the recommendation of the Council by the Society at its Annual General Meeting.

THE COUNCIL

7(a)The business of the Council shall be specified in Article 35 and shall include the direction of the policy of the Society, the work of its committees, the reception of reports from such committees, from Divisions, from Headquarters and subject groups.

(b)The Council at its first meeting after election shall elect from its own members, a Chairman, two Deputy Chairmen and the following Committees:

(i) Finance and Administration Committee
(ii) Conference and Promotions

(iii) Technical
(iv) Parliamentary and Local Government
(v) Any other Committee considered by the Council to be necessary.

(c) The Chairman of Council, the two Deputy Chairmen of Council, the Honorary Treasurer, the Chairmen of the Standing Committees (or Deputies in their absence) and the Immediate Past Chairman of Council shall comprise a Steering Group and will meet as required with the following terms of reference:

1. To implement Council policy ,
2. To ensure that the programmes of the Standing Committees are comprehensive and appropriately interlocking
3. To formulate proposals for policy changes
4. To act on behalf of the Council in cases of urgency
5. To report to the next following meeting of Council any action taken on its behalf.

(d) There shall also be a Nominations Committee, appointed by the Council. The Terms of Reference of this Committee shall be as set out in the Standing Orders of the Council.

(e) The procedure for the election of Chairman, Deputy Chairmen and Committees, and the rules and functions of all Committees, shall be decided by the Council.

ELECTIONS

8.(a) President, Vice-Presidents, Honorary Members and Honorary Treasurer. Nominations for the offices of President, Vice-Presidents, Honorary Members and Honorary Treasurer may be made by any Member of the Society. Nominations, in writing, shall be received by the Secretary General not less than three months prior to the date of the Annual General Meeting.

(b) (i) Divisional Representatives (Elected in accordance with Article 32(a)). Each Member may nominate Divisional Representatives for his own Division provided that he does not nominate more than the total number to be appointed by that Division. Nominations shall be made to the Divisional Secretary not less than seven days before the date of the Annual General Meeting of the Division. In the event of more nominations being received than there are Divisional Representatives to be appointed, elections by ballot shall be held at the Annual General Meeting of the Division. The result of such an election is to be reported to the Secretary General of the Society not later than seven days before the date of the Society's Annual General Meeting. The names of the persons so elected shall be announced at such Annual General Meeting.

(ii) No Member or Representative of a Member shall nominate, be nominated for, or vote in any Divisional Election other than that of which he is a Member or Representative.

(c) Representatives of National or similar organisations (in accordance with Article 32(b)).
Nominations from National or similar organisations shall be received by the Secretary General not less than seven days before the date of the Annual General Meeting.

(d) No nomination for office shall be considered valid unless the agreement of the candidate has been previously obtained.

INTERPRETATION OF BYE-LAWS

9. The Council shall have full power to decide any question of interpretation of these Bye-Laws and any other question on which these Bye-Laws are silent, subject to the power of the Society in any subsequent general meeting to review any such decision and to make new provision in relation thereto.

HONORARY OFFICERS

President: Naomi E. S. McIntosh
Immediate Past President: Sir Derek Ezra, MBE
Vice Presidents: Stanley E. Cohen, CBE, FRSA;
Madron R. Seligman, MEP, BA
Hon. Treasurer: B. H. Edwick
Chairman of Council: H. Giblin
Deputy Chairmen: W. B. Twyford
Cllr. L. Poole
Immediate Past Chairman: A. J. Clarke

PAST PRESIDENTS: Dr. H. A. Des Voeux; Mr. Will Melland; Sir George Elliston; Lord Simon of Wythenshawe; Dame Vera Laughton Mathews, DBE; Alderman Professor F. E. Tylecote, CBE; Sir Ernest Smith, CBE; Dr. R. Lessing, CBE; Sir Hugh Beaver, KBE; The Rt. Hon. Lord Cohen of Birkenhead; Dr. Albert Parker, CBE; Sir Alan Wilson, FRS; Mr. S. E. Cohen, CBE; Sir John Greenborough, KBE; Professor P. J. Lawther, CBE; Lord Flowers, FRS; Sir Derek Ezra, MBE.

THE COUNCIL OF THE SOCIETY

Elected Divisional	Representatives:
Scotland	E. Gibson, I. MacPherson, P. J. McPartlin
Northern Ireland	J. R. Lamont
Northern	C. R. Cresswell, Cllr. L. Poole, Cllr. T. W. Yellowley
North West	M. Dickinson, W. D. Gartside, D. Horner, I. Liversidge, J. B. Marsh, W. F. Snow
Yorkshire & Humberside	I. W. Barker, D. Greenwood, L. Hay, W. B. Twyford
West Midlands	Cllr. J. R. Griffiths, Cllr. G. T. Randall, T. Townsend
East Midlands	Cllr. R. S. Chamberlain, K. R. Enderby, D. F. Haynes, Mrs. E. J. Inglefield
London & South East	M. Beaumont, J. Clancey, W. Heron, Mrs. G. E. Naylor, Dr. M. J. R. Schwar, Professor R. S. Scorer, R. H. Shipman, G. C. Stubbs
Central Southern	K. B. Dorman, A. J. Rees, R. F. Shapter
South West	H. Dawson, Cllr. D. R. Lovelace, L. E. Robson
South & Mid Wales	T. Jones, Cllr. C. Lewis, Cllr. H. I. Thomas

Appointed Representatives of National Bodies:

British Gas Corporation: Dr. N. C. Ross
British Steel Corporation: D. A. Harrison
Central Electricity Generating Board: A. J. Clarke
E.P.E.M.A.: K. S. Dunn
Industrial Gas Cleaning Association: Morgan Jones
Institute of Gas Engineers: Dr. F. E. Shephard
Institute of Petroleum: H. I. Fuller
Low Temperature Coal Distillers' Association: R. Pane
National Coal Board: R. W. C. Wheatley
Royal Society of Health: R. W. Lander
Solid Smokeless Fuels Federation: H. Giblin
The Institute of Environmental Health Officers: E. Robson
Women's Gas Federation & Young Homemakers: Mrs. B. Howard
Women's Solid Fuel Council: Miss K. Bradbury

STAFF

Secretary General: Air Commodore John Langston, CBE

Administration, Printing and Sales of Publications

Administration Officer:	Peter J. Mitchell
Secretary to Secretary General & Administration Officer, Council & Standing Committees Administration:	Vanessa John
Membership, Publications Sales & Accounts, Conference etc. Registrations:	Sue Miles

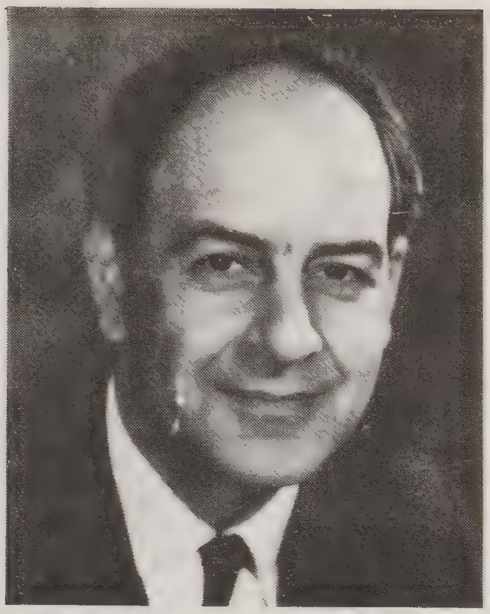
Editorial, Information Service and Library

Editor, Information Officer and Librarian:	Jane Dunmore
Assistant:	Penny Gilbert
Secretary:	Lizz Wood

WHO'S WHO

NAOMI E. S. McINTOSH, President of the Society. Naomi McIntosh started life as a Market and Social Researcher with Gallup Poll, but after 12 years switched to teaching marketing and market research at Enfield College of Technology where she became more interested in the problems of researching for the public sector. During this time she was also a Councillor for a London Borough, serving on its Education Committee and as Chairman of the Children's Committee, and became actively involved with the social services and community relations. She joined the Open University at its inception, starting up its survey research department, and developing new strategies for the research and evaluation of media-based education systems for adults, and then took on a four year stint as Pro Vice-Chancellor for Student Affairs. She has written widely on the education of adults, and is currently working on the Hoggart Advisory Council's Proposals for Continuing Education. She has also been heavily involved in consumer affairs, chairing the National Gas Consumers Council for three years, sitting on the National Consumer Council, and was a member of the Commission on Energy and the Environment. In 1981, Naomi McIntosh was appointed Commissioning Editor for the new Channel 4 Television Company. She is married with three sons.

SIR DEREK EZRA, MBE, Immediate Past President of the Society. Sir Derek (created a Knight Bachelor in the Birthday Honours, June, 1974) was born on 23rd February, 1919, and educated at Monmouth School and Magdalene College, Cambridge. He joined the Army as a gunner in 1939. He was awarded the MBE

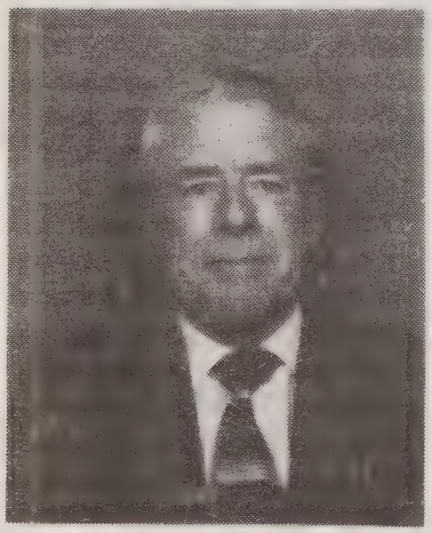


in 1945 for wartime services, and after demobilisation in 1947, with the rank of Lt. Colonel, joined the Marketing Department of the National Coal Board. Sir Derek was appointed a Member of the National Coal Board in July, 1965 (with special responsibility for marketing) and Deputy Chairman in May, 1967, and he became Chairman - in succession to Lord Robens - on 3rd July, 1971. Sir Derek is Past President and Vice President of the Consultative Committee of the European Coal and Steel Community in Luxembourg and a member of the CBI Council; a member of the British Overseas Trade Board and Chairman of the BOTB European Trade Committee; a Governor of the London Business School; a member of the Court of Governors of the Administrative Staff College, Henley; and a member of the Court of the Cranfield Institute of Technology.

STANLEY E. COHEN, CBE, FRSA, Vice President of the Society, was President of the Society 1971-73 and Hon. Treasurer, 1957-1971. He was Chief Commoner, City of London, 1965 and Chairman, Public Health Committee 1954-56 when he was responsible for creating the whole of the City of London as a Smokeless Zone on 2nd October 1955 - the first city to be so controlled, and also responsible for the clause in the City's Various Powers Act 1971 to limit the sulphur content of oil to 1% - the first parliamentary legislation of its kind. As a Member of the Clean Air Council 1960-75, he initiated action in 1964 to reduce pollution from motor vehicles. During worldwide travels, he has pressurised Governments to hasten clean air legislation and to use British made equipment.

MADRON R. SELIGMAN, MEP, BA, Vice President of the Society, was educated at

Harrow School and Balliol College, Oxford, where he was President of the Oxford Union in 1940. He has been Chairman of the Incinerator Company Ltd. since 1960 and Director of Fluor (GB) Ltd. since 1968. He was Non-Executive Director of APV (Holdings) Ltd. in 1972. Mr. Seligman has been a Member of the European Parliament representing Sussex West, since 1979, and is spokesman on Energy for the European Democratic Group in the European Parliament.



HARRY GIBLIN, Chairman of the Council of the Society, represents the Solid Smokeless Fuels Federation. He has spent all his working life in the solid fuel appliances industry, originally with the manufacturers of Redfyre appliances and later as Regional Officer for the Coal Utilisation Council in Manchester. It was here that he first became interested in clean air, following the introduction of the smokeless zones in the Manchester area. He was appointed General Manager of the Solid Smokeless Fuels Federation in 1959 and in this position has helped Local Authorities in the implementation of their smoke control areas.
Mr. Giblin has served on the Council since 1962. He was a long-standing member of the Parliamentary and Local Government Committee until he became Chairman of the Finance and Administration Committee, 1980/1981.

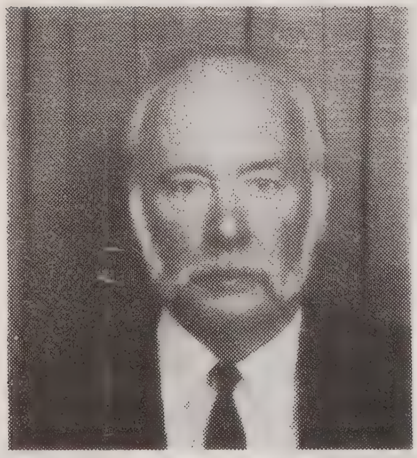
A. JOHN CLARKE, Immediate Past Chairman of the Council of the Society, represents the Central Electricity Generating Board. He is an Honours graduate in Mechanical Engineering of Loughborough Technical College. After serving with a commission in the Royal Engineers, he joined the British Electricity Authority in 1949, and held operational posts at several power stations. He joined Headquarters in 1952 and began to specialise in air pollution problems. In 1961, he was appointed to head a small group dealing solely with environmental matters, and became Head of an expanded Environmental Section within the Planning Dept., CEGB, in 1978. Mr. Clarke has served on the Council since 1967 and was Chairman of the Technical Committee 1972/1978.

WILLIAM B. TWYFORD represents the Yorkshire & Humberside Division, NSCA. He has been actively involved with the work of the Society for the past 21 years. For most of that time he has been a Member of the Yorkshire and Humberside Divisional Council; he is a past Vice Chairman of the Division, and currently serves as Honorary Secretary. In recent years he has been Chairman of the Society's Conference and Promotions Committee and was elected Senior Deputy Chairman of the Society's Council in 1981.

CLLR. LEN POOLE, BEM, JP, represents the Northern Division, NSCA. He has been Chairman of the Northern Division and a Member of Council since re-organisation of local government. Also since that time he has been Deputy Chairman* of the NSCA's Conference and Promotions Committee, and was elected junior Deputy Chairman of the Society's Council in 1981. He has been Chairman of the Environmental Health Committee, Middlesbrough BC (since re-organisation) and Chairman of the Community Health Council, South Teesside (largest in Northern Region). He has been responsible in the last few years for persuading his Council to complete its domestic Smoke Control programme by 1979 (in spite of financial cut-backs). He is Chairman of the Boroughs of Cleveland Pollution Group (Industrial Pollution), and E.C. member of the National Federation of Cremation Authorities. (*now Chairman.)

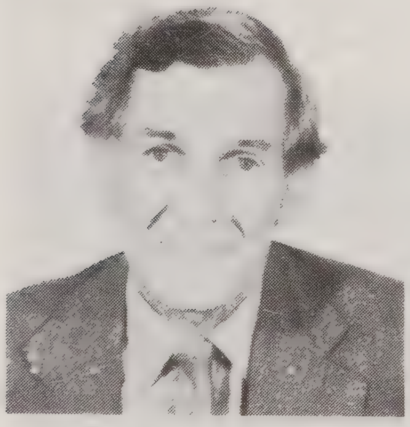
BRIAN HARRIS EDWICK, Honorary Treasurer of the Society, is Managing Director of F. E. Beaumont Ltd. He is also Honorary Treasurer and past President of The National Federation of Master Steeplejacks and Lightning Conductor Engineers.

I. W. BARKER represents the Yorkshire and Humberside Division, and is Director of Environmental Health, City of Sheffield. He formerly held appointments with Manchester and with Leicester where he held the post of Assistant Chief Environmental Health Officer with special responsibility for Pollution and Noise Control. Prior to his present appointment, he was Chief Environmental Health Officer with Bracknell District Council. He has written and presented papers on air pollution and noise and in 1976 he attended Heathrow Fourth Terminal Public Inquiry as an expert witness on behalf of the Local Authority Aircraft Noise Council.



MAX BEAUMONT, FInstF, CIMGTechE, MIPI, represents the London & South East Division, NSCA. He was educated at Dulwich College and joined the family firm as an apprentice steeplejack. He served as pilot RAFVR 1940-1946. He joined the NSCA in 1965, was elected to the Council in 1972 and is current Chairman of the London, South Eastern and Central Southern Divisions. He is founder member and past Chairman of the Environmental Protection Equipment Manufacturers Association, Chairman of the British Flue & Chimney Mfgs Assoc., Past President of the National Federation Master Steeplejacks, Past Chairman of the Inst. Mechanical & General Technician Engineers, Industrial Fuel Economy Group, Construction Health & Safety Group. He is a Member of eighteen BSI Technical Committees, and a holder of four British patents. He is Chairman of F. E. Beaumont Ltd.

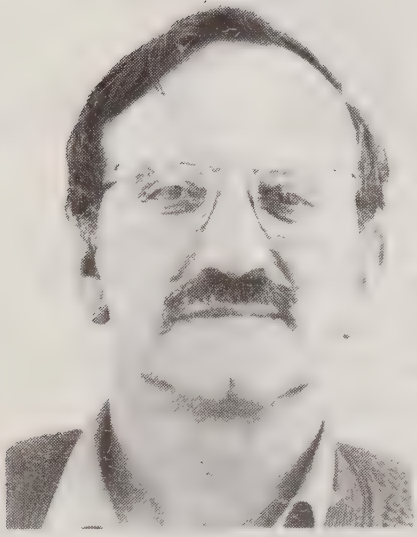
MISS KATHLEEN BRADBURY represents the Women's Solid Fuel Council. She was elected Chairman of WSFC in 1980 having previously been Chairman of the North Western Region WSFC. Originally with the Ministry of Fuel and Power, she was appointed to the Women's Advisory Council on Solid Fuel and served until 1973 as their Education Officer. She is the author of the WSFC Textbook 'Solid Fuel in the Home' and has been associated with NSCA for many years.



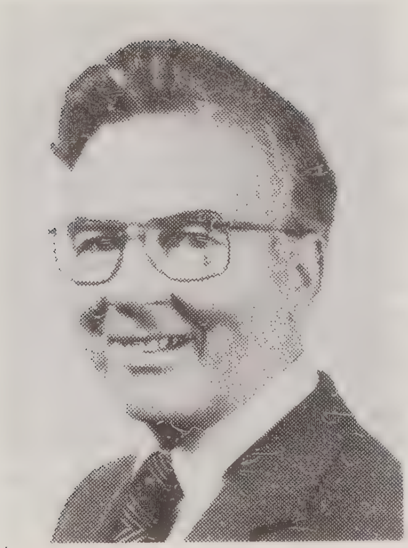
CLLR. RONALD S. CHAMBERLAIN represents the East Midlands Division, NSCA. He has been a member of the East Midlands Division for fourteen years and a Member of the Council of the Society for eight years. He has been a Member of the Ashfield District Council and Kirby-in-Ashfield UDC for sixteen years, was Chairman of the Kirby-in-Ashfield UDC 1970/71, Chairman of the Kirby-in-Ashfield UDC Health Committee from 1971/74, and Chairman of the Ashfield DC Environmental Health Committee, 1974 to the present time. Cllr. Chamberlain was elected Chairman of the Central Nottinghamshire Community Health Council in February 1981 and has recently become a member of the Central Nottinghamshire District Health Authority. He has served as Justice of the Peace for nine years.

JAMES C. CLANCEY, OBE, FIPHE, FIEH, MIEnvSc, MAmerPHA, represents the London & South East Division, NSCA. Before retirement he was Chief Inspector (Environmental Health) to the Greater London Council and was formerly Chief Inspector in the Public Health Department of the London County Council. He is Vice President and Chairman of Council of the Institution of Public Health Engineers; a member of Council of the Institution of Environmental

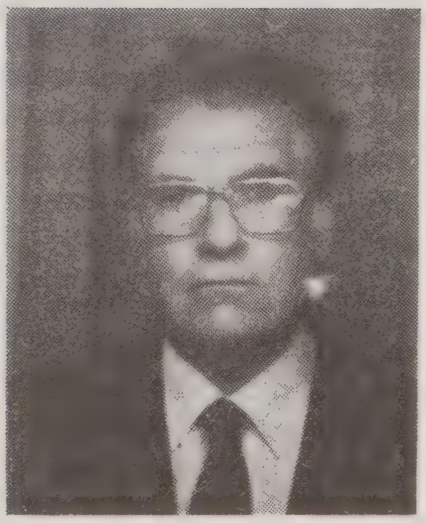
Sciences and a past Vice President of the Environmental Health Officers Association. He was Chairman of the Council of the Society, 1975/76. He has for thirty years been active in the promotion of the clean air movement particularly in Greater London. He now practises as a consulting public health engineer.



COLIN R. CRESSWELL, CEng. FInstE, MEHA, MIDA, represents the Northern Division, NSCA. He is the Secretary of the Northern Division and has been a Member of Council since 1976. He was Chairman, North Eastern Branch, Institute of Acoustics for three years (till 1978) and is now a member of Committee. He has been Principal Environmental Health Officer (Pollution Control), Newcastle upon Tyne since 1974, and for eight years previously was Divisional Officer responsible for Pollution Control in West Bromwich. He is author of a standard textbook on air pollution, numerous articles and papers and is a Royal Society of Health examiner. He was awarded a European Fellowship in 1972 and studied pollution control in West Germany. He was a member of the Domestic Coal Consumers Council 1975/78, and is a member of the BSI Committee on Industrial and Neighbourhood Noise.



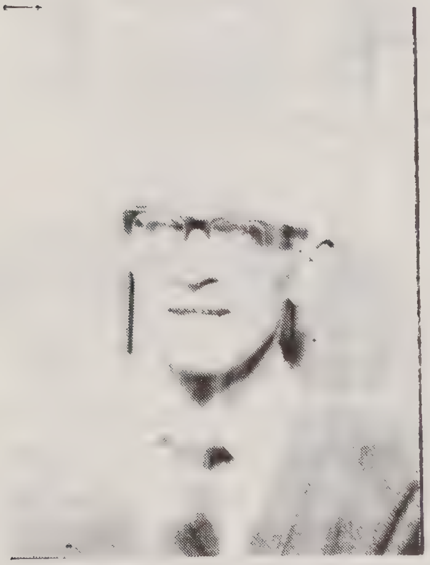
HYLTON DAWSON is the Health and Safety Engineer, Rolls-Royce Limited, Bristol, where he leads a team covering all engineering and systems controls in health and safety work, including pollution, safety, environmental engineering, occupational hygiene, ionising radiations and noise. After an early introduction to acoustics, which has fascinated him ever since, he joined the aircraft industry in 1957 and after having been involved in jet silencer research, came to Bristol to lead a research team in aero acoustics. He is co-patentee of covergent plate and notched silencers for supersonic jet engines and is a past member of the Noise Research Committee of the Aeronautical Research Council. In 1971 he was awarded the President's Gold Medal of the Society of Engineers for a paper on Aero Engine Noise, presented at a conference on Engineering and Its Effect on the Environment. He is Chairman of the Avon Occupational Health Society and has written and lectured extensively in Europe and the Americas on his specialist subject. He has a particular interest in low frequency acoustics and is concerned with investigating generation mechanisms and means of reducing low frequency noise in gas turbine installations.



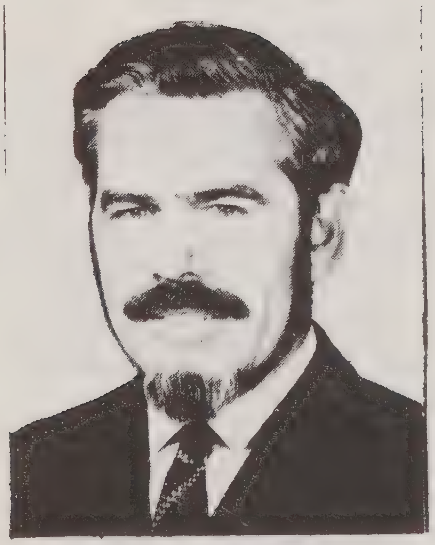
MAURICE DICKINSON, MIEH, MRSH, represents the North West Division, NSCA. He was Chief Environmental Health Officer for the Borough of Altrincham from 1957 to 1974, and the Metropolitan Borough of Trafford since Local Government Reorganisation. A Member of the Institution of Environmental Health Officers and a Member of the Royal Society of Health. He is keenly interested in all forms of pollution and is involved with the Warren Spring Heavy Metal Survey. He is a long-standing Member of the National Society for Clean Air and a Member of the Manchester Area Council for Clean Air and Noise Control.

KENNETH B. DORMAN represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector (now Environmental Health Officer) in 1965 and was employed at West Bromwich, Gosport, Cambridge and currently at Slough Borough since 1973. He has been Deputy Borough Environmental Health Officer since January 1978.

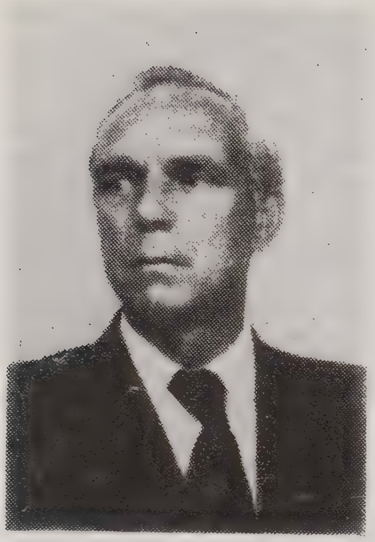
KENNETH S. DUNN, CEng, MInstE, represents EPEMA (the Environmental Protection Equipment Manufacturers Association). He is Managing Director of the Incinerator Company Limited. In 1969 he joined INCINCO from Robey & Co. Limited of Lincoln, where he was an Engineering Director with a special responsibility for boiler development. He is a fuel technologist and has been a Member of EPEMA since its formation in 1972; he was elected Honorary Secretary of EPEMA in March 1973.



KENNETH R. ENDERBY represents the East Midlands Division, NSCA. He has been City Environmental Health Officer, Peterborough City Council since 1974, and was previously Deputy Chief Public Health Inspector from 1961/74. He has been the representative of Peterborough City Council to the NSCA for 18 years, and a member of the East Midlands Division for 13 years (Deputy Chairman 1976/77, Chairman 1977/78). He has been a Member of the Council of the Society and of the Conference & Publicity Committee since 1974.



HOWARD I. FULLER, MA, FInstPet, a Past Chairman of the Society, represents the Institute of Petroleum. Until retirement in 1981 he was a Principal Research Scientist at the Esso Research Centre, Abingdon, where he worked for nearly 35 years. His various activities included 6 years as technical adviser to Esso affiliates in countries of North Africa. For the last 16 years he concentrated on environmental matters, advising on public and governmental concerns about the environment with respect to Esso's products and operations. Amongst his other interests, he now provides occasional technical consultancy services in environmental matters. Mr. Fuller has been a member of the NSCA Council since 1972.



WILLIAM D. GARTSIDE represents the North West Division, NSCA. He is currently Principal EHO (Pollution and Noise Control) with Rochdale MBC. After apprenticeship and several years in the building industry he qualified as a Public Health Inspector in 1957, Meat and Other Foods Inspector in 1958 and Smoke Inspector in 1959, subsequently being appointed as specialist pollution control officer with the former C.B. of Rochdale. He is a founder member of the Manchester Area Council for Clean Air and Noise Control and member of the noise advisory working group to that Council.

T. ERIC GIBSON represents the Society's Scottish Division. He has been an Environmental Health Officer since qualifying in 1949. For eleven years he was a Member of HM Colonial Service working in Uganda. For the last three years he has been a Member of the Scottish Division, NSCA, and for the last five years, specialist Smoke Control Officer, City of Edinburgh District Council.

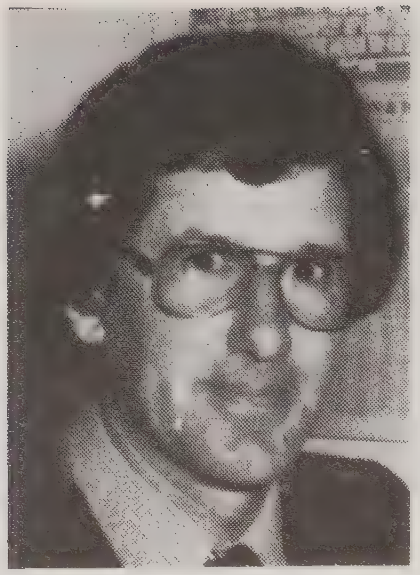
D. GREENWOOD, MEHA, Director of Environmental Health Services, Kirklees MBC, represents the Yorkshire & Humberside Division NSCA and is a member of the GP&F Committee.

CLLR. J. R. GRIFFITHS represents the West Midlands Division, NSCA. He was born in Shrewsbury and served in the Royal Navy as a telegraphist, 1943-46. For 20 years he was Senior Fire Control Operator for Hereford and Worcester Fire Brigade. He was first elected to Worcester City District Council in 1973 and re-elected in 1980. Cllr. Griffiths is Vice Chairman of the Environment Traffic Committee.

DAVID ANTHONY HARRISON represents the British Steel Corporation. He has been involved with Energy and Environment in the Steel Industry for over 20 years. He is a member of BSC Pollution Control Committee, which is a national committee determining environmental policy, and a member of the Noise Control Engineering Group of BSC.

LEWIS HAY represents the Yorkshire and Humberside Division, NSCA. He has been a local government representative to the Society since 1960 and a Member of the Yorkshire and Humberside Division Council since 1975. As Chief Public Health Inspector of the former Bertley-with-Arskey Urban District Council he implemented the smoke control programme in 1971 for the whole area and this was completed in 1975 under the new Doncaster Metropolitan District Council, where he is now Chief Environmental Health Officer. During the period 1970/1974 he was a Member of the Department of the Environment Working Party on the Suppression of Odours from Offensive and Selected Other Trade, representing the Urban District Councils Association.

DAVID F. HAYNES, MP, represents the East Midlands Division. Mr. Haynes, who was elected MP for Ashfield in the May 1979 general election has attended and spoken at NSCA Conferences and has, since his election to Parliament, declared his intention of maintaining a close interest in the Society's work and aims. Formerly a Councillor, he comes from a coal-mining area and has helped his own local council to implement smoke control and clean air policies generally.

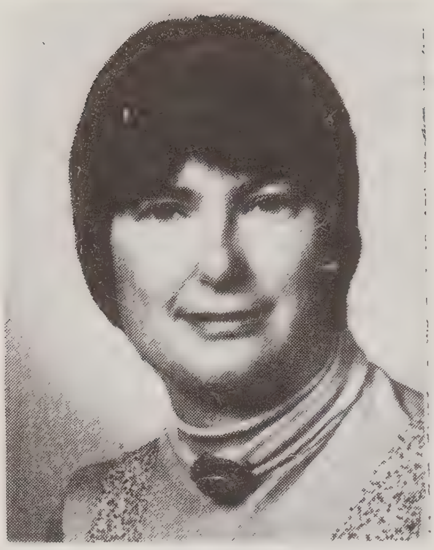


W. HERON, MIEH, represents the London and South East Division, NSCA. Mr. Heron is Divisional Environmental Health Officer with Brighton Borough Council responsible for noise and air pollution control matters, including smoke control, noise abatement zones and the monitoring of lead from road traffic.

DEREK RALPH HORNER trained as a gas engineering trainee in Harrogate, Yorkshire. Sent to Salford College of Advanced Technology on the 3-year sandwich course for gas engineers, he qualified with Hons. Degree pass in Gas Engineering. Specialised in industrial gas applications. Joined private heating company as Technical Sales Manager at branches in East Midlands, West Midlands and Yorkshire. He was involved with heating schemes for industrial, commercial and domestic operations utilising all fuels. Joined South East Gas and became Commercial Sales Manager, responsible for sale of commercial gas in South London and South East. Joined North West Gas as Commercial Manager, Central Lancs. area, responsible for sale of all gas to North Lancashire. Chartered Engineer - Member Institute Gas Engineering, Member Institute Energy, Member Institute Marketing, Member Chartered Institution of Building Services. He is involved with the North West Fuel Luncheon Club as Hon. Secretary.

MRS. B. HOWARD represents the Women's Gas Federation and Young Homemakers. She has been a member of the Gas Federation for 14 years and is currently a Council Member for the South East Area. She is married, with two sons and a daughter.

CLLR. MRS. ELIZABETH JANE INGLEFIELD represents the East Midlands Division,

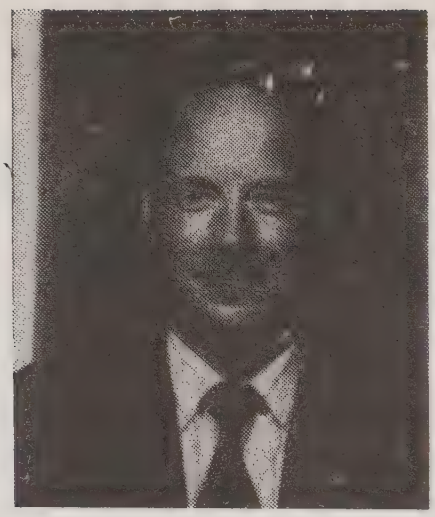


NSCA. She was formerly Vice Chairman of Health Committee and Chairman of Housing Committee, High Peak Borough Council. She has been on the Divisional Council of the East Midlands Division for the past 6 years and is a Past Chairman of the Derbyshire Advisory Council for Clean Air. Mrs. Inglefield is on the Management Committee of the Housing Centre Trust (North West Division) and a member of the Management Committee of the Derbyshire Historic Buildings Trust Ltd. She is currently pursuing a 4-year course at Sheffield City Polytechnic.

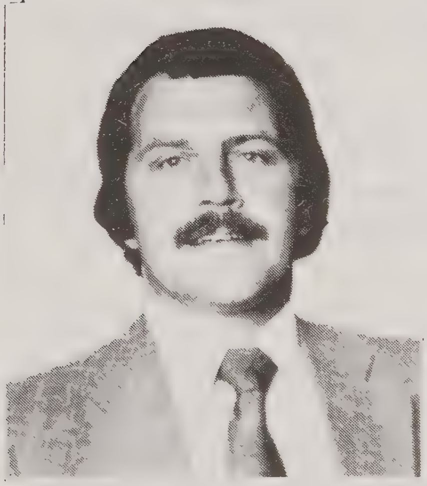
MORGAN JONES represents the Industrial Gas Cleaning Association. He is a Fellow of the Institute of Chartered Accountants in England and Wales, and Partner in the firm of Wenham, Major & Clarke. He has been Chairman of IGCA for 10 years (since 1972).

TERRY JONES, DMA, MIEH, represents the South & Mid Wales Division, NSCA, and is a member of the Parliamentary and Local Government Committee. He was appointed in 1974 as Senior Environmental Health Officer with Torfaen Borough Council. He is responsible for the Pollution Control Section which includes all duties appertaining to atmospheric pollution, noise and toxic waste disposal etc. Prior to Local Government reorganisation was employed with three other authorities. Past Chairman of Gwent Branch of the Environmental Health Officers Association. He is currently the appointed Hon. Secretary of the South & Mid Wales Division, NSCA.

R. W. LANDER represents the Royal Society of Health. He is Chief Environmental Health Officer to Middlesbrough Borough Council. He currently serves on the Northern Divisional Council of the Society, and previously served on the East Midlands Divisional Council. He is



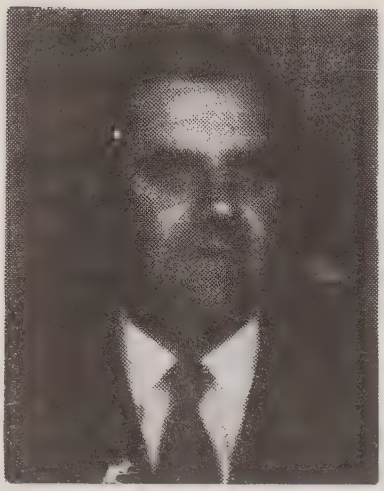
a Fellow and Member of Council of the Royal Society of Health; a Fellow of the Institution of Environmental Health Officers; a National Executive Committee Member of the Society of Environmental Health Officers; an EHO adviser to the Association of District Councils and represents this body on the Health and Safety Executive/Local Authority Liaison (HELA) Committee and Local Authorities Co-ordinating Body on Trading Standards (LCAOTS).



JAMES R. LAMONT represents the Northern Ireland Division, NSCA. He is Honorary Secretary of the Northern Ireland Division of the Society. He was educated at the Royal Belfast Academical Institution, qualified as a Public Health Inspector in 1962, employed by Belfast County Borough and subsequently Down County Health Committee. On reorganisation of local government he was appointed Principal Public Health Inspector (Pollution Control) with Eastern Group Public Health Committee (a consortium of five district councils) and is currently Senior Environmental Health Officer with Department of the Environment (Northern Ireland). He is a Fellow of IEHO and was a Centre Councillor of that body for ten years, past Chairman and Honorary Secretary of the Northern Ireland Centre.

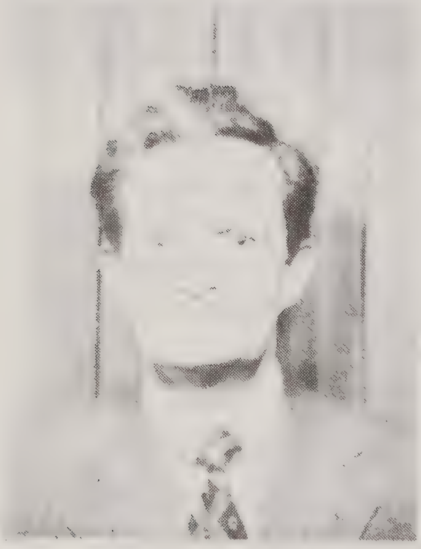
CLLR. C. LEWIS represents the South and Mid Wales Division. He is a member of the Conference and Promotions Committee and is Chairman of the Welsh Division. He is Chairman of the West Glamorgan Planning Committee and a Justice of the Peace for the Borough of Afan.

IAN R. LIVERSIDGE, FRSH, MIEH, MBIM, represents the North West Division, NSCA. As Director of Environmental Health,



Bolton MBC, he is responsible for the co-ordination of all matters relating to air pollution and noise control. The Borough Council is actively pursuing a phased programme of domestic smoke control and allocates some £60,000 annually to this work. The Council is carrying out an Inner Urban Project in relation to the atmospheric heavy metals burden, to assess the impact of pollution sources and review planning strategies, and under the direction of Mr. Liversidge, operates an Industrial Liaison Committee, which seeks, with the co-operation of local industry, to evaluate and ameliorate the problems of industrial pollution. A continuous monitoring programme is undertaken in relation to a newly established major motive power battery manufacturing plant which assists in securing very high standards of control.

CLLR. D. R. LOVELACE represents the South West Division, NSCA. He has been a Member of Bath City Council since May 1976 and was a candidate for the Somerset Euro-Constituency in the 1979 Euro-election. He is a past Assistant Secretary-General of the World Association of World Federalists and a sometime Local Groups Officer for the International Voluntary Service (UK). He is Director of the Theatre Royal Trust Ltd., Bath.

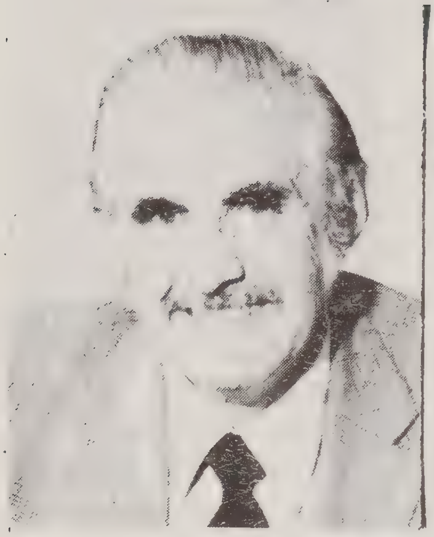


IAN MacPHERSON, BSc, FRSH, represents the Scottish Division, NSCA. He is a graduate of the University of Strathclyde and has served in Local Government for some twenty years. He is Divisional Officer, Air Pollution Division, Environmental Health Department, City of Glasgow DC. He serves on the NSCA's Technical Committee and is the President of the Scottish Division of the Society, having been a Member of the Society for some twenty years. He was a Member of the Clean Air Council for Scotland and is a Member of the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution.

PATRICK McPARTLIN, CEng, MInstE, MIPlantE, MBIM, represents the Scottish Division, NSCA. He is Deputy Managing Director, NCC Rexco Ltd.

JOHN B. MARSH, FRSH, MIEH, represents the North West Division. Prior to the Second World War he was employed briefly with ICI Metals Ltd; during the war he served with the Royal Navy and post-war entered the field of Public Health with the County Borough of Wigan and latterly the new Metropolitan Borough of Wigan, being employed as Chief Environmental Health Officer for the last 22 years. He is a Member of the Royal Society of Health and a Member of the Institution of Environmental Health Officers and has also been an Examiner on the IEHO Education Board for the last 13 years. He has been keenly interested in all forms of pollution and its prevention and has been a long-standing Member of the NSCA, the Standing Conference of Co-operating Bodies on the Investigation of Air Pollution and a Member of the Manchester Area Council for Clean Air and Noise Control.

MRS. E. M. L. NAYLOR represents the London, South East and Central Southern Divisions. She has been associated with the Women's Solid Fuel Council for over 21 years and is the present Chairman of the London and Southern Region W.S.F.C. Mrs. Naylor is a Member of the Royal Society of Health; Lecturer in Home Economics in England and America; Member of the BBC Local Radio Council; Past President of United Kingdom Federation of Business and Professional Women. She is currently Area Organiser and Lecturer for J.P. Coats Ltd. in Arts and Crafts.

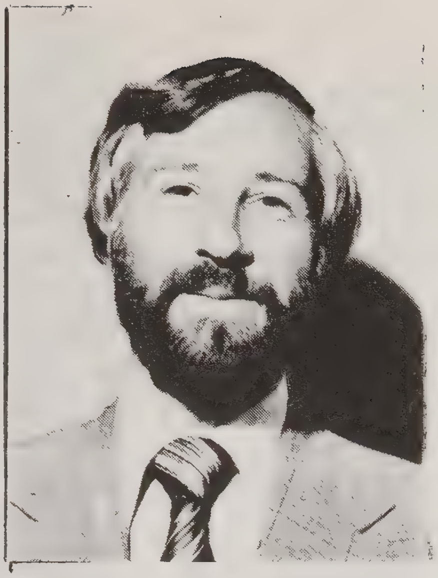


ROGER PANE, MInstM, represents the Low Temperature Coal Distillers Association. He is a Director of Coalite Group Ltd., and Director, British Coke Export Sales Corporation Ltd. He has been an individual Member of the Society for many years and served as an elected representative of the East Midlands Division of the Council of the Society. He currently serves on the Parliamentary & Local Government Committee. He is a Member of the Executive Committee of the SSFF and a representative on the Warren Spring Standing Conference of Co-operating Bodies.

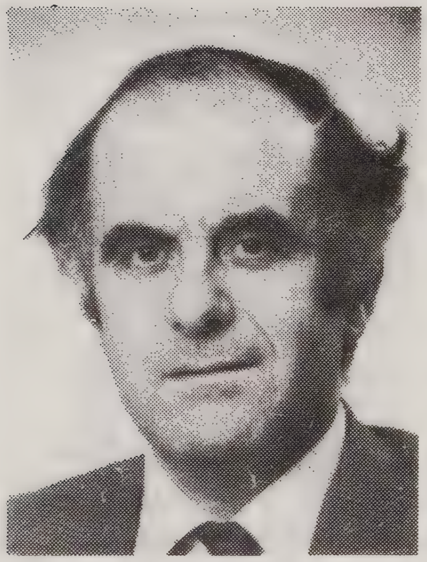
CLLR. GEORGE T. RANDALL, ISM, represents the West Midlands Division, NSCA. He is Chairman of the West Midlands Division, and a Member of the Society's Conference and Promotions Committee. He has been a Member of Worcester City Council since 1966 and a Member of Hereford and Worcester County Council since 1974. He has lived in Worcester for the past thirty years and is a former employee of the Ministry of Defence.

ALAN J. REES represents the Central Southern Division, NSCA. He qualified as a Public Health Inspector with Oxford City Council, and has since been employed by three other local authorities, before his present appointment as Senior Environmental Health Officer for South Oxfordshire DC. In 1978 he was elected as Honorary Secretary of London, South East and Central Southern Division.

L. EWEN ROBSON, MRSH, MIOA, Associate of the Institute of Energy, represents the South West Division, NSCA. He was appointed Specialist Inspector for

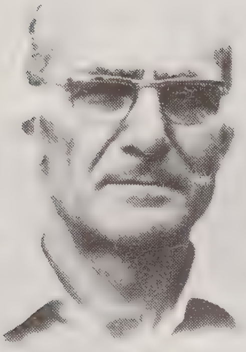


Atmospheric Pollution and Noise for Bristol in 1969. Since 1973 he has been the Assistant Chief Environmental Health Officer, Bristol City Council. He is a Member of the Institute of Environmental Health Officers, represents them on the Council of the Society and is on the Western Counties Technical Committee on Environmental Pollution. He is a Member of the Institute of Acoustics and has lectured extensively on both air pollution and noise topics at Bristol Polytechnic, Bristol, Southampton and Loughborough Universities. He is currently Chairman of the Bristol Water Study Group, and a past Chairman of the Avon, Gloucestershire and Somerset Environmental Monitoring Committee.

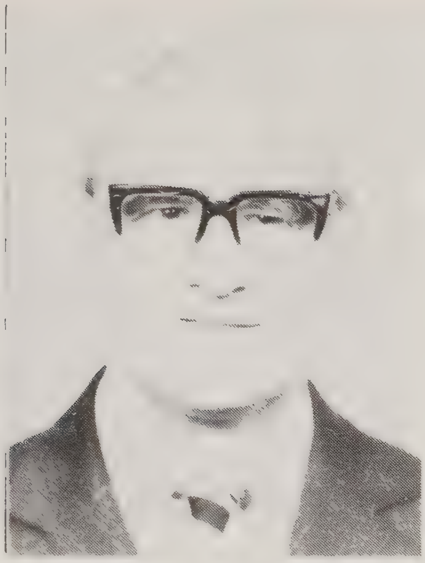


DR. N. C. ROSS, BSc, PhD, CEng, FIGasE, represents the British Gas Corporation. He graduated in chemistry from Aberdeen University where he also completed a PhD degree in 1960. He worked for six years in the rubber and plastics industry, mainly in the field of high temperature polymers. He joined the Watson House laboratories of British Gas in 1966 initially as a materials specialist and later became manager of the Cooking & Combustion Division, with particular interest in constituents of combustion of gas. He is currently an Assistant Director of the Watson House Research Station.

DR. M. J. R. SCHWAR, PhD, MSc, BSc, DIC, MInstP, represents the London and South East Division, NSCA. He obtained his first degree in Physics and a PhD in Combustion Physics from London University following researches at Imperial College of Science and Technology, Department of Chemical Engineering and Chemical Technology. Dr. Schwar has worked for Thorn Electrical Industries, the University of Wisconsin and the Paint Research Association. In 1974 he joined the Greater London Council Scientific Branch as Building Physics Section Leader and since 1976 has been responsible for Air Pollution matters in the Environmental Science Divisions. He has presented various papers on air pollution and has addressed NSCA Conferences and workshops. Dr. Schwar is a Member of the Technical Committee.



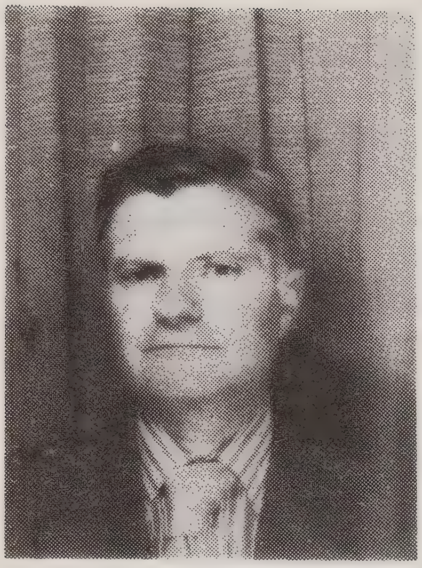
PROFESSOR RICHARD S. SCORER, MA, PhD, represents the London and South East Division, NSCA. He was Chairman of the Council of the Society 1978/79. His books include 'Air Pollution' 1968 (Pergamon); 'Pollution in the Air - Problems, Policies and Priorities' 1973 (Routledge & Kegan Paul); four colour filmstrips 'Air Pollution' 1959 & 1965 (Diana Wyllie); 'Clouds of the World' 1972 (David & Charles); 'Environmental Aerodynamics' (Ellis Horwood 1978); 'The Clever Moron' (Routledge & Kegan Paul 1977). He was in the Meteorological Office & RAF 1941/5. He was appointed as Lecturer (Meteorology) Imperial College, 1949; as Reader (Applied Mathematics) in 1957, and became Professor (Theoretical Mechanics) in 1962. He is a Fellow of the Meteorological Society (Hon. Sec. 1956/60), Fellow of the Royal Society of Health, Fellow of the Royal Aeronautical Society, Fellow of the Royal Society of Arts, Fellow of the Institute of Mathematics and its Applications. He was Founder Editor of the International Journal of Air Pollution (now Atmos. Env.) He was a member of the Clean Air Council from 1968 until its demise and Chairman of CACs Technical Committee from its inception. He was an Alderman, London B. of Merton (1971/78) and on the Metropolitan Water Board 1971/74.



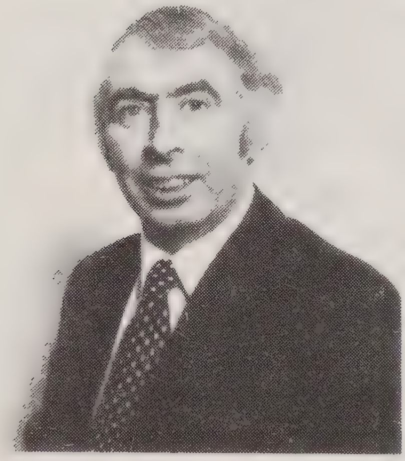
RONALD F. SHAPTER, FIEHO (Individual Member) represents the Central Southern Division; he was, before retirement, Chief Public Health Inspector of High Wycombe. He was a Local Government representative to the Society from 1956 -1979, a Member of the Divisional Council from 1964, Honorary Secretary of the SE Divisional Council 1969/74 and Chairman of the London, SE and Central Division from 1977-1981. He has been a Member of the Council of the Society since 1969, formerly a Member of the Conference and Promotions Committee and now a Member of the Finance and Administration Committee. Whilst Chief Public Health Inspector of High Wycombe he drew up and was responsible for the implementation of the programme of Smoke Control Areas and made a special study of the problems associated with the burning of wood waste in its many forms.

FRANK E. SHEPHARD, BSc, PhD, FRIC, C.Chem, FRCS, CEng, FIGasE, represents the Institution of Gas Engineers. He graduated from the Queen's University of Belfast in 1960 and completed a period of research into catalytic reactions of hydrocarbons before joining the Gas Council Basic Research Groups in 1963. He studied fundamental properties of catalysts until 1970, when he joined the Analytical Research Group of the Gas Council's London Research Station. He is now an Assistant Manager responsible for the Environmental Studies Group within the Analytical Division of London Research Station. He also has a special responsibility for outdoor environmental matters within the R&D Division of British Gas. He is a member of the Institution of Gas Engineers Environmental Studies Committee.

R. H. SHIPMAN represents the London and South East Division, NSCA. He joined



Shell Mex and BP Ltd. in 1963 in the Industrial Fuels Division; he has spent many years specialising in the marketing and technical development of LPG, becoming the LPG Engineer for BP Oil Ltd. in 1976. Mr. Shipman was promoted to Senior Engineer in 1978 to cover all fuels and related environmental matters in the industrial market. He became Manager, Environmental Services in the Technical Development Services Branch of the Commercial Division in 1981. He is a Member of a number of environmental committees including those of the Institute of Petroleum, the CBI and the UK Petroleum Industry Association.



BILL F. SNOW, MIEH, MIWM, represents the North West Division, NSCA. He commenced Local Government service in 1958 as a student Public Health Inspector, Border RDC. Appointed district Public Health Inspector to Accrington BC in 1962. Appointed Deputy Chief Public Health Inspector to Warrington RDC in 1969. Appointed to present post of Chief Environmental Health Officer to Warrington BC on 1st April, 1974. He has been interested in Air Pollution Control since the early 1960s when Accrington commenced its Smoke Control Programme. Bill Snow has been a member of the North West Divisional Council since 1976 and was elected Chairman in 1981. He has served on the Council and Technical Committee of the Society since 1979.

GEORGE C. STUBBS, FIEH, represents the London & South East Division, NSCA. He is a life member of the NSCA, and is a retired Divisional Public Health Inspector, having a special interest in air pollution control. He was elected to the Council of the South East Division at its first meeting, and has acted as Minute Secretary for many years; he was elected to the Council of the Society in 1961.

CLLR. H. I. THOMAS represents the South and Mid Wales Division, NSCA. He was first elected as a Councillor in May 1967 and for the past 6 years has been Chairman of the Environmental Health Committee to the Lliw Valley Borough Council. Having represented his Authority on the South and Mid Wales Division, NSCA, he was elected to the Divisional Committee 2 years ago. Councillor Thomas is also his Council's representative on the West Glamorgan Joint Environmental Pollution Committee.

TREVOR TOWNSEND, MIEH, represents the West Midlands Division and is currently Principal Environmental Health Officer (Environmental Pollution and Health and Safety) with Wolverhampton MBC. He qualified as an Environmental Health Officer in 1964 and has since held senior appointments with several local authorities, in the main specialising in air pollution and noise control. He has been Technical Secretary of the Midlands Joint Advisory Council for Clean Air and Noise Control since 1975 and lecturer for the Royal Society of Health Diploma in Air Pollution at Aston University since 1974.

ROBERT W. C. WHEATLEY represents the National Coal Board. He was born in Berwick-upon-Tweed and educated at King Edward VI School, Morpeth, and Durham University. He was appointed Chief Scientist of the NCB's mid-Northumberland Area in 1955 and transferred to Marketing Department at Headquarters in 1964. He was Head of various Planning Branches until 1970 when he was appointed Technical Marketing Director. In 1978 he became Director (Administration and Technical) in which post his main responsibilities include staffing and administrative matters, the marketing aspects of coal preparation, quality control, the environment and the development of new types of solid fuel burning appliances and equipment. He had been a member of the Technical Committee of the Society since 1964 and a Member of the Council since 1966.

THOMAS W. YELLOWLEY, MBE, represents the Northern Division, NSCA. He was elected to the Newcastle-upon-Tyne City Council in May 1963 and is currently Deputy Lord Mayor of the City. He is Chairman of the Health and Environment Committee and Chairman of the Hackney Carriages and Private Hire Sub-Committee. In addition, he is a Member of the Policy Resources Committee. He was Vice Chairman, Northern Division, NSCA in 1976, Chairman, Northern Division in 1977, and Vice Chairman in 1979 and 1980 again.

ANNUAL REPORT AND ACCOUNTS

April 1980 - October 1981

I am pleased to report that the Society has had another busy and productive year, despite world recession and an atmosphere of economic gloom almost as dismal as the smogs which beset our predecessors. In this case "year" is a loose term since, as you will see above, the period I am covering is from the beginning of the financial year 1980 up to the 1981 Annual General Meeting which is, for the first time in recent years, being held in conjunction with the Clean Air Conference. You will recall that AGMs have traditionally been held in London in July, but for a number of reasons they have not been well attended. As a result the Society agreed that AGMs should in future coincide with the Annual Conference, which should boost attendance several fold.

Most of the external events affecting our interests and calling for action on our part were further developments of established issues. For example, the Government's decision to abandon the Noise Advisory Council was a logical, though equally unwelcome, extension of its decision last year to abolish the Clean Air Council. The Government's decision that lead content of petrol is to be reduced to 0.15 grammes per litre by 1985 was welcomed by the Society, although some of our members considered it to be a rather hasty political response to the increasingly strident lobbying which was given wide coverage throughout the media. Proposals for the reorganisation of the National Survey aroused considerable concern among many of our members and prompted a very successful Workshop on the subject which I will report subsequently. Perhaps the most time consuming and and potentially far reaching issue has been the proposal for the reorganisation of the Alkali and Clean Air Inspectorate within a restructured Health and Safety Executive. I will not dwell on the argument which has been widely reported in Clean Air and the professional press, but the immediate reaction throughout the Society was that the proposals should be rejected for the comprehensive and cogent reasons set out in Chapter 8 of the 5th Report of the Royal Commission on Environmental Pollution. Members are worried that, whatever safeguards are promised, there could be a lessening of concern for protection of the external environment, in the new organisation, due to its other, and sometimes conflicting, interests. Over the course of a few years, as personalities change and a new generation of HSE orientated Inspectors emerge, the traditional independence of the Alkali Inspectorate could be undermined. The Society is clear therefore, that the recommendation of the Royal Commission should be implemented and ACAI returned to the Department of the Environment. Following an unenlightening exchange of letters with the Government earlier in the year and in view of the feeling that pressure should be maintained towards a satisfactory outcome, we organised a joint submission with the Institution of Environmental Health Officers and the Confederation of British Industry to the Secretary of State for the Environment. The reply to this, which was received just before the House rose for the summer recess, was again non commital, but at least elicited a personal reply to our President from the Minister. As this Report goes to press there the matter stands.

Smoke control has continued to make progress albeit at a somewhat slower pace than heretofore - which is not surprising in view of the economic situation. We were successful in opposing two applications for the revocation of smoke control orders and the Society made representations in certain other instances including public inquiries into the making of smoke control orders. Like my predecessor, I too must report that there is no sign of action on the 94 recommendations of the 5th Report of the Royal Commission on Environmental Pollution published in January 1976 - apart from the wholly negative proposal of HMACAI already discussed.

As for our relationships with outside bodies the Society continues to be well represented on the Standing Conference of Co-operating Bodies and on the Air Pollution Monitoring Management Group. We are also represented on the Council for Environmental Conservation (CoEnCo) and on Committees of the District Heating Association. The Society has continued to provide secretarial backing for the Environmental Protection Equipment Manufacturers Association (EPEMA).

As you know, the Society is a member of the International Union of Air Pollution Prevention Associations (IUAPPA) for which we also provide the secretariat. The 6th Annual World Congress of IUAPPA took place in Buenos Aires in October 1980. A number of papers were presented by members of the Society and also by other speakers from this country. I was fortunate to be able to represent the Society at the Congress and also in the meetings of the International Board and Executive Committee of IUAPPA held concurrently with the Congress.

I am also pleased to report that in June last year the Society joined the Association International Contre la Bruit as an associate member. It is still too early to assess our relationships with this organisation which, incidentally is holding its 12th Annual Conference in Vienna in April 1982.

A useful meeting was held with the Department of Environment, at their invitation, where Honorary Officers and representatives of the Society discussed problems of regulatory control and the interface between local authorities and District Alkali Inspectors. We have been assured by the Department that the broad concensus view that the Society could provide on such issues was extremely useful to them. We hope that this meeting will prove the forerunner of many such exchanges with, and increasing support for the Society from, the DoE.

Turning now to our own affairs, I am delighted to say that the increased activity in the Divisions which Howard Fuller referred to in his report last year has gone from strength to strength. It is pleasing to note that so many Divisions are now either organising their own Seminars or arranging the programme content for One Day Teach-Ins while using our Headquarters staff to provide the administrative backing. The Scottish Division held a most successful Seminar in June last year at Dunblane Hydro on aspects of pollution control when five papers were presented and discussed. In December the East Midlands Division held a One Day Teach-In at Clumber Park, Nottinghamshire on "The Environmental Responsibilities of Local Authorities". This was also well attended. Last June the North West Division held a One Day Symposium at the North Western Gas Board headquarters, Altrincham, on "Conflict or Co-operation between the EEC and UK in the Control of Air Pollution?" Over 120 people attended this most successful event which, like those already mentioned, deserve our best congratulations. Further, it is also gratifying to be able to report that the South West Division have virtually completed their planning for a One Day Teach-In on "The Economics of Pollution Control" which will be held at Bristol on 24th November next. If there is insufficient space to mention the numerous other smaller meetings and visits arranged by the Divisions throughout the year, many of which are reported in Clean Air, I will stress that these are no less important in meeting the overall objectives of the Society than those bigger events which gather the limelight.

Busy as the Divisions have been, the Society has also carried through a full central programme although, regrettably, the two day Workshop arranged to be held in Sheffield in April last year had to be cancelled for lack of support. The theme for this would have been "Energy Conservation". In June 1980 a very successful meeting was held in London to consider the DHSS Working Party Report "Lead and Health". Professor Lawther took part in the wide ranging discussion which was fully reported in the Society's journal. A further meeting of experts on this subject was organised by Professor Scorer at Imperial College this June to examine the evidence widely quoted during the previous twelve months and which it was said had been ignored by Professor Lawther's Working Party. The transcripts of the discussion are still being collated.

Last year's Clean Air Conference held in Bournemouth in September was attended by 250 delegates. We are most grateful to our President, Sir Derek Ezra, for his important contribution to the very successful Opening Session on "Energy and the Environment". I am pleased to report that the presentations and discussions were as highly regarded as the venue proved popular. The following week the Society mounted an exhibition for the City of London taking as its theme "25 years of Smoke Control". Omitting the Teach-In (which I covered earlier) the next major event was the two day Workshop held at the University of Newcastle this April on the subject of "Monitoring - Where Next" The meeting was most successful and proved that given the right topic, the Society's Workshops can produce a substantial delegate attendance. As the Workshop has been fully reported in Clean Air I will not dwell on it further.

Finally I am pleased to say that the Society's National Poster Competition which has been held over the past six months produced nearly 2,000 entries from all parts of the country. Unfortunately the senior age group produced only a few hundred entries generally of a standard which the professionals judging the competition considered to be disappointing. The predominating junior age group however, produced some excellent results. A representative collection of entries in both class will be on display at the Brighton Conference. The prizes will be presented by our new President on 6th October.

In previous years it would have been customary for me to report that our new President had been elected at the Annual General Meeting in July! As I write, however, the Annual General Meeting is some weeks away and I must anticipate that our new President will be elected immediately following the presentation of this report. Nevertheless, we are greatly honoured that Naomi E.S. McIntosh has consented to stand for election in succession to Sir Derek Ezra. A former Councillor of a London Borough, and serving on its Education Committee and as Chairman of the Children's Committee, she has long been actively involved in the social services and community relations. She joined the Open University at its inception, being appointed Professor of Applied Social Research in 1978 and Head of Department of Survey Research. Latterly, she was pro Vice-Chancellor for student affairs. She has written widely on the education of adults, has chaired the National Gas Consumers Council for three years, and sits on the National Consumer Council. Of closest concern to the Society, Naomi McIntosh is a member of the Commission for Energy and the Environment, and for several years has been studying the impact of coal production and utilization on the environment; including the impact on air quality. Shortly after accepting the invitation of the Nominations Committee to stand for election her appointment as Senior Commissioning Editor for Channel Four TV was announced. We look forward to her Presidency with the very greatest of pleasure.

It is also my pleasure to inform you that following an invitation from the Nominations Committee Mr. Madron Selgiman, MEP has agreed to stand for election for appointment as a Vice-President. Mr. Seligman has been a Member of the European Parliament for Sussex West since 1979. Within the Parliament he leads for the Conservative Group on energy matters. His deep interest in clean air and related environmental matters is of long standing. He has been Chairman of the Board of The Incinerator Co. Ltd., since 1960 and, as you may know, this company is both a Corporate Member of the Society and a founder member of EPEMA. Mr. Selgiman expressed his great pleasure in accepting the invitation to stand for election but very much regretted that he is unable to attend the AGM as it coincides with his absence in Germany on Parliamentary business. Nevertheless, I would like to take this opportunity to thank him for standing for office which I am sure will provide a vital first link with the European Parliament and, indirectly, The Commission.

Mr. Stanley E. Cohen, CBE has also been nominated for reappointment as Vice-President which I know will delight all members.

Turning now to activities within the Society, the Council and its Committees have also been busy, and I would like to take this opportunity of thanking all members of Council and all members of the Society's Committees for their essential support and attendance. The response at the various meetings is invariably good and I and the Honorary Officers are most grateful for this.

The Technical Committee duly saw the publication of the Society's new book "Pollution from Road Vehicles". Not surprisingly, the book has received mixed reviews from some professionally interested quarters, but the Committee considers some of the criticisms to be badly informed. However, future copies of the book will include a brief supplement updating some of the older references. Much of the Committee's time has continued to be devoted to the subject of lead in the atmosphere. Other matters considered were motor vehicle emissions, the long range transport of sulphur and acid rain, air pollution in the Bedfordshire Brickfields, and the EEC Directive on Smoke and SO_2. The Committee also initiated two submissions to the Department of Transport: one noting that the Armitage Committee had not taken up the Society's recommendation for stricter smoke emission acceptance testing of new vehicles and expressing the Society's regrets over the matter; the other supporting the case for the electrification of main line railways. Because of common interest in certain Agenda Items the Committee met jointly with the Parliamentary and Local Government Committee on two occasions. Items discussed included a submission to the Secretary of State for Energy calling for measures to control air pollution eminating from the Phurnacite Plant at Abercwmboi and the burning of unauthorised fuels in smoke control areas (about which many of our members feel a growing concern).

In relation to this latter item, the Parliamentary and Local Government Committee has initiated a survey to provide comprehensive factual data on the extent of coal burning in smoke control areas. Following a request from the Manchester Area Joint Council, a further survey will aim to establish the success rates of prosecutions under the various Acts and the adequacy of penalties imposed. Doubtless we shall all be interested to see the results of these two important surveys.

The Conference and Publicity Committee has, in addition to the meetings already mentioned, organised the Annual Conference at Brighton and completed outline planning for a further Workshop to be held next Spring at Nottingham University. This has the object of examining problems arising between local and central government in the control of industrial air pollution. Very importantly the Committee has also produced a paper on all aspects of Society publicity policy which was approved by Council in May. As a result, various low cost/no cost measures to promote both clean air and the Society have been put in hand including the production of specialised brochures which will set out the advantages of membership to potential membership groups. Other measures to be introduced, as funding permits, range from the production of educational packs to the development of new exhibition materials. As regards publications, the 1981 edition of the Members' Handbook has been distributed and "Clean Air" has continued to be published. While the overall content of the latter has not been reduced, significant savings in production costs and postages have accrued from the Council's decision that in future it should be issued quarterly rather than bi-monthly. Finally, the Committee has introduced a Society tie for purchase by members.

The General Purpose and Finance Committee has been deeply concerned with the pressing problems of finance and subscriptions in the face of inflation and recession. Inevitably, these vital issues have dominated many of the Society's business discussions during the period under review and acted as a brake on members' natural enthusiasm to extend the scale and scope of our activities. I do not believe the current financial situation is desperate but determined action by all members is needed to prevent it becoming so over the next few years. These matters are the subject of a separate Memorandum to be issued with this report and I can only advise all members to study this with the greatest of care and act accordingly in the interests of the Society. The Committee continues to be involved with the question of premises as the landlord has yet to inform us of the long term decision on the future of the building. However, it looks as though we shall continue in our present headquarters for the time being.

Early in the year the Committee was also preoccupied with the appointment of the new Secretary General, Air Commodore Langston, who took over from Rear Admiral Sharp last November. Air Commodore Langston has now been able to visit most divisions and is getting to know and becoming known by our members. In welcoming him to his new appointment I would also like to take the opportunity of expressing the Society's deepest thanks to Rear Admiral Sharp for the splendid way in which he held the fort during the protracted negotiations which finally led to the appointment of his successor.

The topic to which I attached the greatest importance in the year under review was the work of the Policy Examination Committee which you will recall was required by Council "to review all aspects of Society policy making and to make recommendations." Much time was spent examining all aspects of the Society's objectives, organisation and modus operandi. The draft report was sent to the Divisions in April following which the Committee held a meeting with the Honorary Secretaries thus enabling Divisional views to be fully considered. The final report and recommendations were approved by Council at a special meeting on 28th May. As you would expect with such a range of interests to be taken into account, the report has not met the expectations of all. In particular, it was disappointing to many of us that financial constraints made us forego the expansionist review we would have preferred. We concentrated instead on the internal functioning of the Society in order to improve its efficiency and speed up its response to important issues. It is nevertheless clear that there is major concensus of support for the recommendations in the report. Accordingly the AGM will be asked to vote on those recommendations which modify the Society's Memorandum and Articles of Association and Bye-laws. The remaining recommendations involve amendments to Standing Orders which have already been approved by Council within its existing powers. As the Chairman of the Policy Examination Committee I would like to thank the members for the very considerable time and effort they so willingly put into establishing "The Way Ahead". I would also like to express my thanks to the Divisional Councils and, of course, their Honorary Secretaries, for their time and effort in commenting so helpfully on the draft report of the Policy Examination Committee.

On behalf of members of the Society, I should like to thank all members of staff for their energetic and loyal efforts on our behalf. I would also like to express my appreciation to the Honorary Secretaries of all Divisions for their essential contributions in the absence of which the Society would surely wither. We are most grateful to them, but I think they will not be surprised to learn that we shall be looking to them for yet more activity in the months ahead.

Before concluding, it is with sadness that I have to remind you of the death of Commander Colin Buist, CVO who died on May 19th at the age of 85. He gave outstanding service for the Society for very many years, was a long standing member of Council and was made a Vice-President in 1975.

I was particularly pleased, during my term of office, to be invited to attend several Divisional AGM's and Divisional Council Meetings, thus learning more of the "grass-roots" activity on which the success of the Society is founded. It is also a matter of some pride that I was the first Chairman of Council able to wear the handsome badge of office purchased with the most generous legacy from Dr. Albert Parker, CBE whose work for the Society all will remember with affection and respect.

Lastly, in wishing my successor a most successful term of office, I would like to say that I have regarded the Chairmanship both as a privilege and a thoroughly enjoyable honour.

A.J. Clarke
Chairman of Council

THE NATIONAL SOCIETY FOR CLEAN AIR

(Company Limited by Guarantee - Incorporated January 1, 1958)

BALANCE SHEET **31st March 1981**

	Notes	31.3.81		31.3.80	
		£	£	£	£
FIXED ASSETS					
OFFICE FURNITURE AND EQUIPMENT					
As valued by the Secretary General as at 1.4.72	3	1,910		1,910	
Additions at Cost (1980/81 - £1,481)		11,856		10,375	
		13,766		12,285	
Less Depreciation (over 5 years)		9,932	3,834	8,596	3,689
LIBRARY BOOKS					
At Nominal Value			100		100
			3,934		3,789
INVESTMENTS AT COST	4				
Fixed Interest Stocks		3,270		3,270	
Ordinary Shares		10,426	13,696	10,426	13,696
CURRENT ASSETS					
Stock of Publications at Secretary General's Valuation		1,625		1,430	
Sundry Debtors		2,957		5,340	
Prepayments		114		255	
Bank Balances		54,668		46,693	
Cash in Hand		120		93	
Funds held by Divisions		1,045		933	
		60,529		54,744	
LESS CURRENT LIABILITIES					
Sundry Creditors and Accrued Expenses		19,835		12,124	
NET CURRENT ASSETS			40,694		42,620
NATIONAL POSTER COMPETITION PROVISION	6		(2,300)		(2,500)
NET ASSETS			£56,024		£57,605
Represented by:					
GENERAL FUND					
Balance at start of year			44,027		39,475
(Deficit)/Surplus for the year			(1,581)		4,552
Balance at end of year			42,446		44,027
PREMISES FUND			13,578		13,578
			£56,024		£57,605

B.H. EDWICK - Honorary Treasurer

J. LANGSTON - Secretary General

INCOME AND EXPENDITURE ACCOUNT for year ending 31 MARCH 1981

	Notes	31.3.81 £	31.3.81 £	31.3.80 £	31.3.80 £
INCOME					
Subscriptions - Donations	1 & 6		38,279		37,202
Conference			12,756		12,940
Workshop			-		5,289
One Day Teach-In			296		612
Sales of Publications			4,423		4,753
Advertising - Clean Air		1,786		1,418	
Members Handbook		841	2,627	684	2,102
Investment Income - Dividends		2,540		2,277	
Interest		9,308	11,848	5,092	7,369
Contributions from IUAPPA/EPEMA			5,950		5,950
			76,179		76,217
EXPENDITURE					
Salaries and Wages		44,579		29,567	
Rent, Rates, Light and Heat		3,058		2,829	
Insurance, Travel, Cleaning and General Expenses		10,949		10,845	
Depreciation - Office Furniture/Equipment	3	1,336		1,086	
Stationery/Supplies		997		1,365	
Provision for Doubtful Debts		178		271	
		61,097		45,963	
"Clean Air"/Members' Handbook		6,953		6,055	
Information Publicity Services		1,792		853	
Cost of Publications		1,383		1,381	
Divisional Expenses		1,554		1,033	
		11,682		9,322	
Conference		4,282		4,237	
Workshop		200		3,390	
One Day Teach-In		499		753	
		4,981		8,380	
Provision for Poster Competition	5	-	77,760	2,500	66,165
			(£1,581)		£10,052
Less: transfer to premises fund			-		5,500
			(£1,581)		£4,552

NOTES TO THE ACCOUNTS 31st MARCH 1981

1. Subscriptions:
Subscriptions are taken to revenue when received except subscriptions in advance which are carried forward until the period to which they relate.

2. Premises:
The lease on the Society's Brighton offices expired on 14th November 1979. The Society has continued to occupy the premises at the same rent.

3. Office Furniture and Equipment:
Records are not available to show the original cost of all furniture and equipment which was valued by the Secretary General as at 1.4.72 at £1,910 and were included in the Accounts at this figure. Subsequent purchases are being written off over 5 years.

4. Investments:
The market value of the Society's investments as at 31.3.81 was £25,669
31.3.80 was £23,454

Increase £ 2,215

5. National Poster Competition:
The provision represents funds transferred to provide for expenditure authorised on the National Poster Competition

	1980/81	1979/80
Balance brought forward	2,500	-
Provided in year	-	2,500
Expended	200	-
Balance carried forward	£2,300	£2,500

6. Legacy:
Included in Subscriptions and Donations is a legacy of £200 from Dr. Albert Parker. This legacy will be applied in paying for a Badge of Office for the Chairman of Council.

REPORT OF THE AUDITORS TO THE MEMBERS OF THE NATIONAL SOCIETY FOR CLEAN AIR

We have examined the Balance Sheet and annexed Income and Expenditure Account which have been prepared under the historial cost convention. In our opinion the Accounts comply with the Companies Acts 1948 to 1980 and give a true and fair view of the state of the Society's affairs at 31 March 1981, and of its deficit for the year ended on that date.

1 October 1981

City Gate House,
39/45 Finsbury Square,
London EC2A 1AE

GEO. LITTLE, SEBIRE & CO.
Chartered Accountants

DIVISIONAL MEMBERSHIP & REPORTS

NOTE: Reports from the Honorary Secretaries of Divisions are for the year June 1980 - June 1981. However, the names of Chairman and Honorary Secretary which head each report are as current, following elections at Divisional AGMs in 1981.

DIVISION ONE

SCOTTISH DIVISION
President: I. MacPherson
Hon. Secretary and Treasurer: F.J. Feeley

The Division has continued to pursue the implementation of proposals for the licensing of coal merchants in Scotland, with the backing of the Council of the Society.

The Civic Government (Scotland) Bill contains, inter alia, a provision for the licensing of street traders. The effect of this would be to require the licensing of any coal merchant selling coal from their vehicle, as distinct from those coal merchants selling and arranging delivery of coal from registered premises.

MEMBERSHIP LIST

SUSTAINING MEMBERS

National Coal Board
Scottish Gas
[illegible]

LOCAL AUTHORITY MEMBERS

Aberdeen, City of
Clydebank District Council
Dundee, City of
Edinburgh, City of
Glasgow, City of
Hamilton District Council
Inverclyde District Council
Monklands District Council
Motherwell District Council
Renfrew District Council
Stirling District Council

CORPORATE MEMBERS

British Steel Corporation
(Scottish Division)
Greater Glasgow Health Board
Lothian Health Board
Scottish Rexco Ltd.
Step-One Research Analysis
Waldie and Cameron Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Anderson, R.P.
Blair, J.A.
Bulcraig, Dr.W.R.
Christie, J.H.
Dunlop, W.A.
Foreman, J.
Hally, J.
Jackson, J.
MacPherson, I.
McGhie, J.R.
Ramsey, Captain E.C.

DIVISION TWO

NORTHERN IRELAND DIVISION
Chairman: R. Campbell Brown
Hon. Secretary: J.R. Lamont

No report was received from the Division.

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Antrim District Council
Ards District Council
Armagh District Council
Ballymena District Council
Belfast, City of
Carrickfergus District Council
Castlereagh District Council
Coleraine District Council
Cookstown District Council
Craigavon Borough Council
Larne Borough Council
Lisburn Borough Council
Londonderry City Council
Newry & Mourne District Council
Newtownabbey District Council

CORPARATE MEMBERS

Eastern Health & Social Services Board

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Brindley, D.
Burke, V.I.
Hanna, B.P.
McLaughlin, D.F.

DIVISION THREE

NORTHERN DIVISION
Chairman: Cllr. L. Poole
Hon. Secretary: C.R. Cresswell

Three meetings were held during the year 1980/81, all in Newcastle upon Tyne which appears to be the best centre for the majority of members in spite of car parking problems.

At the Autumn meeting held in November members heard Mr. D.H.J. Catchpole, Deputy Marketing Director for the North East Region of the N.C.B. speak on 'The Future for Coal'. Mr. Catchpole believed that the new generation of 'smoke eaters' would prove to be highly satisfactory and together with the development of fluidised bed combustion for industrial purposes, presented a bright future for the coal industry. In March it was Mr. R.W. Lander, Chief Environmental Health Officer, Middlesbrough B.C. who spoke on 'Smoke Control' with particular reference to the consultation document issued by the Department of the Environment towards the end of 1980. Mr. Lander said that although the revised procedures on smoke control at first glance appeared to give more freedom to individual local authorities, it in fact tightened the grip of the Ministry over financial arrangements. At the Annual General meeting in June Mr. J.D. Wildsmith, Senior Environmental Health Officer (Pollution Control), Newcastle upon Tyne M.B.C. talked about 'Monitoring Pollen as a Pollutant'. Mr. Wildsmith explained that most hay fever sufferers were affected by pollen produced by Timothy grass and this was, therefore, the type of pollen monitored. As the siting of the instrument obviously determined the number of spores caught in the trap, it was important that each sufferer calibrated his own reactions against the local pollen count. This last meeting of the year also presented many Northern members with their first opportunity to meet the new Secretary General, Air Commodore J. Langston.

Membership has remained fairly static, but the attendance of between 40 and 50 at meetings indicates no lack of enthusiasm. There were no changes in Divisional Officers and the Divisional Council only met once during the year.

C.R. Cresswell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board (North Eastern Region)
National Coal Board
Northern Gas

LOCAL AUTHORITY MEMBERS

Allerdale District Council
Barrow-in-Furness Borough Council
Carlisle, City of
Castle Morpeth Borough Council
Chester-le-Street District Council
Darlington Borough Council
Durham, City of
Easington District Council
Gateshead Metropolitan Borough Council
Hartlepool Borough Council
Langbaurgh Borough Council
Middlesbrough Borough Council
Newcastle Upon Tyne, City of
North Tyneside Borough Council
Sedgefield District Council
South Tyneside Borough Council
Stockton-on-Tees Borough Council
Sunderland Borough Council
Wansbeck District Council

CORPORATE MEMBERS

British Steel Corporation (Teesside Division)
Coal Merchants Federation of Great Britain (Northern Region)
Nailsea Engineering Ltd.

INDIVIDUAL MEMBERS,LIFE MEMBERS.

Calvert, Mrs.M.R.
Canderland, D.E.
Cayton, S.
Chambers, A.
Eve, Mrs.M.E.
Graham, J.V.
Issac, Prof. P.C.G.
Mair, L.
Reece, R.
Sugden, F.G.
Wilkinson, J.R.

DIVISION FOUR

NORTH WEST DIVISION
Chairman: W.F. Snow
Hon. Secretary and Treasurer: J.B. Douglas

In this, my second year as Divisional Secretary, a great deal of work has been done both at meetings and behind the scenes in carrying out the work of the Division.

The Annual General Meeting was held at the Civic Centre, Oldham, on 11th June and included the prizegiving for the Essay Competition. The meeting was preceded by a visit to the North West Gas Hollingwood Training Centre at Failsworth where members and guests saw the training system and maintenance needed to ensure safe and efficient supplies of gas to the many consumers in the Region.

Divisional Council meetings were held in July at the Gas Showrooms, Piccadilly, Manchester, and in February at the MANWEB Headquarters, Chester. At the first meeting, I was elected Honorary Treasurer as well as Secretary following the retirement of Mr. H. Clusky after many years faithful service to the Society. Mr. Stanley (N.C.B.) had retired early and Mr. W.F. Snow (Warrington Borough Council) was elected Vice Chairman in his place. At the second meeting, recommendations were made to Headquarters on a number of issues including the aims of the Society; possible alternative titles; Divisional boundaries and Presidential nominations. A discussion also took place on Smoke Control Cost Limits.

A number of other items have been circulated to Divisional Council members in correspondence following queries from Headquarters. These included the reintroduction of coal in Smoke Control Areas; the future role of the Alkali Inspectorate in the H.S.E.; and the Report "The Way Ahead" about the revision of the Society's role in the future.

The largest activity this year has been the planning of the E.C. Symposium which took place over many months and culminated in an excellent day at Welman House, Altrincham, on June 2nd. Speakers were from the European Parliament; E.C. Headquarters at Brussels; Department of the Environment; and from the Society and a very interesting discussion followed. The event was attended by just over 90 people and many complimentary reports have been received. Thanks are due particularly to North West Gas for the facilities and catering on the occasion and to

Mr. Bob Jowett and staff at MANWEB for assistance in printing the publicity brochures.

I would also like to thank the officers and members for their assistance and support in the year's activities.

J.B. Douglas
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERSHIP

Central Electricity Generating Board (North West Region)
National Coal Board
North West Gas
Shell Chemicals Ltd.

LOCAL AUTHORITY MEMBERS

Alyn & Deeside District Council
Blackpool Borough Council
Bolton Borough Council
Burnley Borough Council
Bury Metropolitan Borough Council
Cheshire County Council
Chorley Borough Council
Congleton Borough Council
Delyn Borough Council
Greater Manchester Metropolitan County Council
Halton Borough Council
Hyndburn Borough Council
Knowsley Metropolitan Borough Council
Liverpool, City of
Macclesfield Borough Council
Manchester, City of
Oldham Metropolitan Borough Council
Pendle Borough Council
Ribble Valley Borough Council
Rochdale Metropolitan Borough Council
Rossendale Borough Council
Salford, City of
Sefton Metropolitan Borough Council
St.Helens Borough Council
South Ribble Borough Council
Stockport Metropolitan Borough Council
Tameside Metropolitan Borough Council
Trafford Metropolitan Borough Council
Warrington Borough Council
West Lancashire District Council
Wigan Metropolitan Borough Council
Wirral Metropolitan Borough Council

CORPORATE MEMBERS

Coal Merchants Federation of Great Britain (North West Region)
Greater Manchester Council for Clean Air & Noise Control
Metal Box Engineering
The Woolton Society

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Artis, Mrs.D.
Ashton, K.L.
Cain, J.
Cass, H.V.
Christian, F.V.
Clusky, H.
Collins, D.H.
Cook, Miss H.M.
Evans, T.
Fallows, W.B.
Franklin, E.J.
Franklin, N.J.
Frazer, I.M.
Gee, Mrs.J.

Gee, J.
Hall, A.
Hayhurst, H.
Hayhurst, Mrs.K.M.
Hendy, Dr.B.
Horton, P.H.
Hollingdale, R.A.W.
Hough, D.A.
Kennedy, M.A.
Kitchener, Earl.
Lloyd, A.
Lowe, T.H.
Mather, Sir William
McGauley, H.J.
Mercer, I.G.
Parsonage, H.
Pollitt, W.E.
Richards, J.E.
Shaw, Mrs.M.
Smith, D.
Stanyard, R.J.
Taylor, A.
Thomas, F.L.
Vanstone, H.B.
Winder, F.
Yates, C.J.

DIVISION FIVE

YORKSHIRE & HUMBERSIDE
Chairman: Cllr. R.J. McElvenney
Hon. Secretary: W.B. Twyford

During the past year there have been three Divisional Meetings and one Special Meeting, details are set out below.

DIVISIONAL COUNCIL

28th October, 1980	County Hall, Barnsley
18th February, 1981	Town Hall, Wakefield
19th May, 1981	Town Hall, Grimsby

SPECIAL MEETING

9th December, 1980	Civic Hall, Leeds

DIVISIONAL MEETINGS

28th October, 1980	South Yorkshire M.C.C., Waste Recycling Plant at Kirk Sandal.
18th February, 1981	Minor Hall, Unity House, Wakefield
19th May, 1981	Findus Factory, Grimsby

Two of the meetings are worthy of particular comment. The Special Meeting held in Leeds on the 9th December, 1980, was convened to consider the future of the Society as viewed by this Division, and the decisions made on this occasion were conveyed to Headquarters and were subsequently taken into account by the Policy Examination Committee of the Society.

The Open Meeting at Wakefield, which any member of the public could attend, dealt with the environmental problems associated with open casting. Invitations were extended to planning authorities, polytechnics, colleges, and the programme was advertised in the Society's Journal. It was the first time for some years that the Division has held this kind of meeting, and it was extremely successful with an attendance of 120, and both the papers presented were printed in Clean Air. It is interesting to note that a request has been received for copies of the papers from as far away as New South Wales, and there is. little doubt that where a great effort is made to promote a meeting on a topical and controversial subject, it is possible to whip up a considerable amount of enthusiasm.

The Division has been well represented on the Council of the Society during the year under review having had a representative on each of the Standing Committees of the Society. It is some little while since this state of affairs existed and it is hoped that we will be able to continue this degree of involvement in the future.

The new Secretary General, Air Commodore John Langston, took up his appointment in December 1980, and one of his first public engagements was to attend the Special Meeting held in Leeds. I am pleased to be able to report that Air Commodore Langston is following in the excellent tradition established by his predecessor, Rear Admiral Sharp, and has already established meaningful relations with the staff, the Council, and Government Departments.

In my last report I commented on the possibility of the Society filling the gap left by the termination of the Clean Air Council. Since that date the Noise Advisory Council has also been wound up, and it is pleasing to report that meetings have already been held with the Department of the Environment which indicate that they see the value of the Society as a sounding board for a wide spectrum of views associated with environmental protection.

During the year there have been two major exercises undertaken by the Council. In addition to the work undertaken by the Policy Examination Committee, there has been a wide ranging examination of the publicity engendered by the Society's activities, and certain decisions have been taken in this connection which, when read with "The Way Ahead" show quite clearly that the Society is well aware of the difficulties organisations such as ours face at the present time and is doing all that can be done to survive and prosper.

In conclusion I would once again express my thanks to the Divisional Council for their support during the year and to those members of the Division who regularly attend our meetings.

W.B. Twyford
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

- Central Electricity Generating Board
- National Coal Board
- North Eastern Gas Board
- West Yorkshire County Council

LOCAL AUTHORITY MEMBERS

- Barnsley Borough Council
- Bradford Metropolitan Borough Council
- Calderdale Metropolitan Borough Council
- Cleethorpes District Council
- Doncaster Metropolitan Borough Council
- Grimsby Borough Council
- Harrogate Borough Council
- Kingston Upon Hull, City of
- Kirklees Metropolitan Borough Council
- Leeds, City of
- Rotherham Borough Council
- Scarborough Borough Council
- Scunthorpe Borough Council
- Selby District Council
- Sheffield, City of
- South Yorkshire County Council
- Wakefield Metropolitan Borough Council
- York, City of

CORPORATE MEMBERS

- British Acheson Electrodes Ltd.
- British Steel Corporation (Scunthorpe Division)
- British Steel Corporation (Sheffield Division)
- John Thurley Ltd.
- Universal Machinery & Services Ltd.
- Yorkshire & Humberside Pollution Advisory Council

INDIVIDUAL MEMBERS, LIFE MEMBERS.

- Barnes, P.E.D.
- Bell, T.R.H.
- Clarke Dr.A.G.
- Etherington, H.
- Gittins, M.J.
- Hutton, Dr.K.
- Inkersole, D.
- Jackson, J.R.
- Lewis, A.J.
- Millar, Dr.S.E.
- Myers, P.
- Perry, A.W.
- Reynolds, F.
- Saword, A.C.
- Scott, J.A.
- Store, N.J.
- Taylor, G.
- Tomlinson, E.S.
- Wakefield, D.J.
- Williams, P.T.

DIVISION SIX

WEST MIDLANDS DIVISION
Chairman: Cllr. G. Randall
Hon. Secretary: Mrs. K.J. Sulway

Since the 1980 Annual General Meeting there has been one meeting of the Division in October, 1980. The meeting was held at the

Chatterley Whitfield Mining Museum Trust in Stoke-on-Trent and twenty members attended. Mr. D. Evans of the N.C.B. gave an extremely interesting talk on the "Future Role of Coal". After lunch there was a guided tour 700 feet underground showing mining through the ages from the days of manual extraction and pit ponies to modern techniques.

Mrs. Sulway represented the Division at Conference in Bournemouth and at the Workshop in Newcastle-Upon-Tyne on Monitoring.

During the year under review, members were circulated for comment on Mr. Feeley's document concerning the licensing of coal merchants, the draft report of the Policy Examination Committee entitled "The Way Ahead" and the consultative document on revised procedures on smoke control from the E.E.C. directive on smoke and sulphur dioxide.

K.J. Sulway
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

National Coal Board
West Midlands Gas

LOCAL AUTHORITY MEMBERS

Birmingham, City of
Coventry, City of
Dudley Metropolitan Borough Council
Hereford, City of
Newcastle Under Lyme Borough Council
North Warwickshire Borough Council
Nuneaton & Bedworth Borough Council
Redditch Borough Council
Rugby Borough Council
Sandwell Metropolitan Borough Council
South Staffordshire District Council
Stoke-on-Trent, City of
Tamworth Borough Council
Walsall Metropolitan Borough Council
Warwick District Council
Wolverhampton Metropolitan Borough Council
Worcester, City of
Wrekin District Council
Wyre Forest District Council

CORPORATE MEMBERS

Guest Keen & Nettlefolds Ltd.
Lodge-Cottrell Ltd.
The University of Aston in Birmingham

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Cockerham, Dr.R.G.
Cox, Mrs. J.
Gillett, J.A.
Grimmett, P.H.G.
Hancock Miss E.
James, E.N.
James, R.F.
Longley, J.C.
Newill, P.P.
Pocock, Dr. R.L.
Roberts, R.E.J.
Sulway, Mrs.K.J.
Taylor, C.B.

DIVISION SEVEN

EAST MIDLANDS DIVISION

DIVISION EIGHT

EASTERN DIVISION

Chairman: C.W. Stacey DFC
Hon. Secretary: E.F. Raven

In presenting the Annual Report for the 32nd year of the Division's existence, and my tenth as your Honorary Secretary, I am again able to say that despite all that is happening - or not happening - in the local government scene, there has remained a keen support for the affairs of the Society amongst East Midlands authorities.

Our Divisional meetings have taken us to Chesterfield for last year's AGM, to N.W. Leicestershire for our September meeting and to Belper for the Spring meeting this year. Hence we have spread ourselves through the Division in that we have met in a different county each time. These meetings have for the most part been reported in Clean Air. On all these occasions we have been indebted to the local authority in whose district we have met, for facilities for our meetings and for hospitality. We have also been very cordially received by the various industrial undertakings we have visited. At Chesterfield we went to Glass Bulbs Ltd and to Vinatex Ltd., at Coalville to NCC(Rexco) and the NCB Opencast Site, and at Belper, which, incidentally, is in the Amber Valley District, we were, not for the first time, visitors at the works of Radiation Parkray.

The Divisional Council has met on three occasions - twice at Kelham Hall and once at Huntingdon. The Council has, in addition to formulating the activities of the Division, been involved with the future role and organisation of the Society, the EEC Directive on Smoke and Sulphur Dioxide, multi-fuel stoves, lead in the atmosphere, and the future role of our colleagues in HM Alkali and Clean Air Inspectorate in the proposed reorganisation of the Health and Safety Executive.

During the year I had, with regret, to report the death of Mr. Brian Jones, who was an Individual Member and worked for the Erewash Borough Council. I have also to report that Wellingborough District Council have ended their membership.

Those who have joined the Society have included the Incinerator Company, Professor J.E. Ffowcs Williams of Cambridge University and Mr. D.R. Romaine, my colleague from Derby.

It is difficult to find variations of saying words of appreciation to all who assist in so many ways in the running of the Division - our Chairman, our Honorary Officers, our co-opted members and all the delegates who by their attendance and by their helpful comments, make the division what it is. For assistance and for understanding when things go wrong I can only, again, record my thanks.

E.F. Raven
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board (Midlands Region)
Coalite Group PLC
East Midlands Gas
National Coal Board
Rexco Ltd.
The Incinerator Company Ltd.

LOCAL AUTHORITY MEMBERS

Amber Valley District Council
Ashfield District Council
Bassetlaw District Council
Blaby District Council
Bolsover District Council
Boston Borough Council
Cambridge, City of
Charnwood Borough Council
Chesterfield Borough Council
Corby District Council
Derby, City of
Erewash Borough Council
Fenland District Council
Gedling Borough Council
Harborough District Council
High Peak Borough Council
Hinckley & Bosworth Borough Council
Huntingdon District Council
Leicester, City of
Lincoln, City of
Mansfield District Council
Newark District Council
North East Derbyshire District Council
North Kesteven District Council
North West Leicestershire District Council
Nottingham, City of
Peterborough, City of
South Derbyshire District Council
South Holland District Council
South Kesteven District Council
West Derbyshire District Council

CORPORATE MEMBERS

British Steel Corporation (Chemicals Division)
British Steel Corporation (Tubes Division)
Loughborough University of Technology
Low Temperature Coal Distillers Association of Great Britain Ltd.
Rolls-Royce Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Brown, J.A.
Catlow, J.
Davies, D.
Ffowcs William Professor J.E.
Fleming, I.
Hall, J.E.
Haynes, F.
Hunt, Dr.J.C.R.
Inglefield, Mrs.E.J.
Lusty, V.
Richards, Dr.J.M.
Riley, R.V.
Robinson, A.Lister
Romaine, D.R.
Stewart, Mrs.E.E.
Turner, Miss H.E.
Turner, T.Henry
Walker, Dr.A.W.
Waring, F.L.
Weldon, G.M.

MEMBERSHIP LIST

LOCAL AUTHORITY MEMBERS

Basildon District Council
Brentwood District Council
Castle Point District Council
Colchester Borough Council
Epping Forest District Council
Harlow District Council
Ipswich Borough Council
Norwich, City of
Thurrock Borough Council

CORPORATE MEMBERS

Ford Motor Company Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Amery, A.J.T.
Dobson, P.F.
Fisher, J.G.
Goodfellow, J.
Parsons, E.
Stephenson, Dr.R.J.
Wade, J.T.
Walker, N.P.
Wraith, M.D.

DIVISION NINE

LONDON & SOUTH EAST DIVISION

DIVISION TEN

CENTRAL SOUTHERN DIVISION
Chairman: M. Beaumont
Hon. Secretary: A.J. Rees

In line with policy of the divisional council no open meetings were held save on the occasion of our Annual General Meeting, due principally to the plethora of other meetings and lectures on offer in the area.

It has however been the intention to provide visits to satisfy the wide range of interests within the membership. Unfortunately efforts to arrange these over the year have by and large proved frustrating. However this was more than made up for by the visit that took place to the Esso Research Centre in company with the South Western Division. An excellent, instructive, and enjoyable time was had by all who were lucky enough to attend.

The problems encountered last year should mean a better range of visits this year, the popularity of which is best exemplified by the numbers of members applying to attend which far outstrips the number of places available.

The Divisional Council took the opportunity to honour one of its number who has carried out his office with a minimum of fuss and the maximum of efficiency, and it was a great pleasure to make a small presentation to George Stubbs who has been Minute Secretary since 1953.

A.J. Rees
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

British Gas Corporation
B.P.International Ltd.
B.P.Oil Ltd.
Central Electricity Generating Board
Eastern Gas
Environmental Protection Equipment Manufacturers Association
Esso Petroleum Co. Ltd.
Greater London Council
National Coal Board
North Thames Gas
Shell International Petroleum Co. Ltd.
Shell U.K. Oil Ltd.
South Eastern Gas
Texaco Ltd.

LOCAL AUTHORITY MEMBERS

Adur District Council
Barnet, London Borough of
Bexley, London Borough of
Brent, London Borough of
Brighton Borough Council
Bromley, London Borough of
Camden, London Borough of
Crawley Borough Council
Dacorum District Council
Dartford Borough Council
Ealing, London Borough of
Eastbourne Borough Council
Elmbridge Borough Council
Enfield, London Borough of
Epsom & Ewell Borough Council
Gravesham Borough Council
Greenwich, London Borough of
Guildford Borough Council
Hackney, London Borough of
Hammersmith, London Borough of
Harrow, London Borough of
Havering, London Borough of
Hounslow, London Borough of
Islington, London Borough of
Kensington & Chelsea, Royal Borough of
Kingston Upon Thames, Royal Borough of
Lewes District Council
Lewisham, London Borough of
London, Corporation of
Merton, London Borough of
Richmond Upon Thames, London Borough of
Rochester & Medway Borough Council
Southwark, London Borough of
Surrey Heath Borough Council
Sutton, London Borough of
Tower Hamlets, London Borough of
Watford Borough Council
Westminster, City of
Woking Borough Council
Worthing Borough Council

CORPORATE MEMBERS

Advance Central Services Ltd.
Atkins, W.S.Group Ltd.
Babcock Power Ltd.
Blue Circle Industries Ltd.
British Steel Corporation
Brookway Engineers Ltd.
Caltex (U.K.) Ltd.
Cleerburn Ltd.
Coal Merchants Federation of Great Britian
Confederation of British Road Passenger Transport
Fläkt Ltd.
Guinness, A. & Son Co.(Park Rayal) Ltd.
Industrial Gas Cleaning Association
Institution of Environmental Health Officers, The
Institution of Gas Engineers, The
Institute of Petroleum

Johnson Matthey Chemicals Ltd.
London Transport
McCrone Research Institute Ltd.
Mobil Oil Company Ltd.
North East Surrey College of Technology
Nutfield Marsh Protection Association
Royal Society of Health
Seltec, South East London College
Solid Smokeless Fuels Federation
Tottenham College of Technology
Women's Solid Fuel Council
Women's Gas Federation and Young Homemakers

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Ades, T.R.
Barnes, K.
Beaumont, M.
Bevington, C.F.P.
Boddy, J.H.
Bond Professor G.G.
Bradshaw, N.F.
Briggs, E.
Brown, H.
Brown, T.J.
Butler, J.W.
Carter, Dr.J.S.
Chandler, T.J.
Clancey, J.
Coker, W.G.
Colville, Lt.Com.R.F.
Colonnese, Miss F.M.
Comer.P.J.
Courtier, G.B.
Craxford, Dr.S.R.
Davis, R.F.
Day, M.R.
Dibb,Ms. S.E.
Driver, Capt.A.C.
Duncalf, R.
East, R.G.
Eaton, Dr.F.J.
Ellis, P.T.A.
Elsworth, Mrs.F.S.
Fisher, A.H.
Gandy, Miss R.L.
Garland, G.E.
Garland, P.
George, Miss M.
Gillett, I.
Goldsmith, A.
Grant, P.M.
Greenhead, S.
Hamilton, Dr.P.M.
Henson, C.G.
Hirschler, M.M.
Hunt, J.R.J.
How, M.D.
Iddison, T.H.
James, B.W.
Jellis, F.
Lees, B.
Lewis, B.N.
Lord, D.G.
Maynard, M.J.G.
Mayo, P.
McQuillan, L.
Menuhin, Yehudi
Monkhouse, Dr.A.C.
Moores, A.R.
Mowle, C.R.
Osmand, A.
Perkins, P.R.
Phillips, H.J.
Rayson, H.
Rice, A.P.
Rosling, Miss E.M.
Scorer, Professor R.S.
Sharpe, D.F.
Shillito, D.E.
Strange, R.C.
Stubbs, G.C.
Sullivan, J.S.
Thorns, J.E.
Train, Dr.D.
Turner, D.W.
Turner, Dr.W.C.
Vine, Mr. & Mrs. G.M.
Ward, N.J.
Wermann, J.C.
Wilson, D.
Wythers, J.R.G.

MEMBERSHIP LIST

SUSTAINING MEMBERS

Southern Gas

LOCAL AUTHORITY MEMBERS

Aylesbury Vale District Council

Bracknell District Council
Cherwell District Council
Fareham Borough Council
Gosport Borough Council
Luton Borough Council
Mid Bedfordshire District Council
Oxford, City of
Portsmouth, City of
Slough Borough Council
Southampton, City of
South Bedfordshire District Council
South Oxfordshire District Council
Vale of Whitehorse District Council
Wycombe District Council

CORPORATE MEMBERS

Atomic Energy Research Establishment
Highbury College of Technology

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Armstrong, F.W.
Bairds, J.M.
Bartlam, J.N.
Billington, N.J.
Bradbury-Williams, J.C.
Bridgen, R.F.
Bryant, Miss P.M.
Dugdale, Mrs.B.
Fuller, H.I.
Jones, Dr.L.H.P.
McPherson, N.
Nevard, L.
Parry, M.
Rcbson, A.
Scotson, D.A.
Shapter, R.F.
Stallard, J.N.
Tagg, J.R.
Verdin, A.

DIVISION ELEVEN

SOUTH WEST DIVISION

Chairman: D.J. Barnett
Hon. Secretary: H.R. Nowell

The year has been dominated by frequent debate, dialogue and consultation on the national organisation and sphere of Society interest, and on a self examination exercise, co-ordinated by a small sub-committee, which realised fruition with the adoption at the June AGM of a policy document on the Future Direction of the South West Division. Significant changes brought about by the latter include the appointment of a public relations officer and a further move towards more formal and informal contact with other interested organisations.

A proposed joint meeting with the South Wales Division at Llanwern Steel Works had eventually to be abandoned due to a B.S. policy decision not to accept works visitors.

One joint meeting which did materialise was at Bristol University in March with the Institute of Physics. This was technically orientated and included papers from J. Rea (CEGB) on Combustion Control Instrumentation and Monitoring, D.J. Moore (CERL) on the Atmospheric Dispersion of Pollution, and from J.E. Colehan (HM ACAI) on the Monitoring and Control of Air Pollution. Such liaison with the Institute proved quite successful and is sure to be repeated.

The Annual General Meeting, held in Bath on 24th June, welcomed the presence of both John Clarke and John Langston. In fact the afternoon session began with John Langston presenting a paper on his first impressions of the Society during which he outlined his total involvement since appointment and explained the structure of HQ administration. He was followed by Dr. Paul Mann, Director of the Bath Public Health Laboratory, who treated members to an entertaining and informative insight into the actual and potential problems caused by free living amoebae. He described the changing face of infection with a proliferation of such amoebae in soil, air and water and their relationship with disease.

In conclusion, the year has seen the Division set itself a course which if followed will further mould it into a lively and active body, attractive to all with an interest in environmental pollution control.

H.R. Nowell
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

Central Electricity Generating Board (South West Region)
National Coal Board
South Western Gas Board

LOCAL AUTHORITY MEMBERS

Avon County Council
Bath, City of
Bristol, City of
Cheltenham Borough Council
Exeter, City of
Forest of Dean District Council
Gloucester, City of
Northavon District Council
Plymouth, City of
Poole Borough Council
Stroud District Council
Taunton Deane Borough Council
Teignbridge District Council
Tewkesbury Borough Council
Thamesdown Borough Council
Wansdyke District Council
Woodspring District Council

CORPORATE MEMBERS

Burmah Oil Trading Ltd.

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Baxter, T.
Capper, A.J.
Colehan, J.E.
Edwick, B.H.
Garrard, Ms.P.
Garrigar, O.L.
Hannabuss, G.
Hebblethwaite, C.
Lane, Dr.J.J.
Manners, C.C.
Merrick, R.J.
Parker, Dr.R.A.

Parry, J.R.	Travers, I.D.
Price, B.	Upton, B.C.
Redston, R.V.	Watkins, E.R.

DIVISION TWELVE

SOUTH & MID WALES DIVISION
Chairman: Cllr. J.R.P. Evans
Hon. Secretary: T. Jones

The Annual General Meeting for 1980 was held in June at the Guildhall, Swansea, when talks were presented by Prof. P.J. Lawther and the former Secretary General, Rear Admiral P.G. Sharp.

The next General Meeting of the Society took the form of a Seminar and was held on 5th September, 1980, at Kings College, Cardiff. The Seminar was entitled "Clean Air for the 1980's" and papers were presented by Mr. D. White (Role of the Local Authority); Mr. R.J. Perriman (Role of the Alkali Inspectorate); and Mr. H. Fuller (Role of the Industrialist). Fifty-one persons attended the meeting.

The next meeting was scheduled to take place in January, 1981, and was to be a joint visit with members of the Western Division to B.S.C., Llanwern. Unfortunately, a letter was finally received in March, 1981, from B.S.C. stating that, due to cutbacks, no visits could be made to the works.

At a meeting of the Divisional Council held on 8th May, 1981, it was decided that a further Seminar be held in 1981, which, again, would be provided free of charge to members of the Division.

Since the Annual General Meeting 1980, the Divisional Council has met on two occasions and the following matters were discussed:

(a) Constitution of the Division.
(b) A scheme for licensing of coal merchants - proposed by the Scottish Division.
(c) A new name for the Society - suggestions were requested to be considered by the Policy Examination Committee.

(d) Pollution from the N.S.F. Plant, Abercwmboi - as a result of a visit to the area by your Secretary; deliberations at Council meetings; and presentation of facts by the District Alkali Inspector and Mr. M. Jones (E.H.O. - Cynon Valley District Council). A report was submitted to a joint meeting of the Society's Technical Committee and Parliamentary and Local Government Committee, at which representatives were present from the Alkali Inspectorate and from N.S.F.

As a result of this meeting a submission was made to the Department of Energy requesting urgent release of monies to update the plant at Abercwmboi. A copy of this submission was also sent to the Secretary of State for Wales. A reply has been received virtually indicating that no such monies are available. (The submission and reply are printed in Clean Air No. 11, Volume 1.)

The Divisional Council have considered the reply and further action is contemplated, including further representation to the Department of Energy, contacting M.P's, pressurising the Chief Alkali Inspector, contacting the shadow spokesman on Energy and writing to Members of the European Parliament for South Wales.

(f) The future organisation of the Alkali Inspectorate.

(g) Divisional Areas and Boundaries.

(h) The report of the Policy Examination Committee entitled "The Way Ahead", on which the views of the Divisional Council were expressed at a special meeting of Honorary Secretaries on 27th June, 1981.

T. Jones
Hon. Secretary

MEMBERSHIP LIST

SUSTAINING MEMBERS

National Coal Board
Wales Gas

LOCAL AUTHORITY MEMBERS

Afan Borough Council
Blaenau Gwent Borough Council
Cardiff, City of
Cynon Valley Borough Council
Islwyn Borough Council
Llanelli Borough Council
Lliw Valley Borough Council
Mid Glamorgan County Council
Neath Borough Council
Newport Borough Council
Preseli District Council
Rhondda Borough Council
Rhymney Valley District Council
Swansea, City of
Taff-Ely Borough Council
Torfaen Borough Council
Vale of Glamorgan Borough Council
West Glamorgan County Council

CORPORATE MEMBERS

British Steel Corporation
(Welsh Division)
South Glamorgan Institute of
Higher Education
Swansea Port Health Authority

INDIVIDUAL MEMBERS, LIFE MEMBERS.

Dearden, J.
Griffiths, D.A.
Harrop-Griffiths, H.
Perriman, R.J.
Taylor, B.C.
Thayer, J.M.

SMOKE CONTROL AREAS

Programme and Progress

The following lists contain the names of the new local authority areas as of April 1st 1974. Due to the local reorganisation in certain parts of the country, and the recent financial constraints imposed on local authorities, many 'Target Dates for Programme Completion' and 'Final Acreage When Completed' figures have not yet been decided. The figures have been compiled directly from information obtained from the local authority concerned. The figures are for the position on 31st March 1981 and some authorities' figures will have changed since that date. The new British Isles divisions, issued by the Department of the Environment, are listed below.

DEPARTMENT OF THE ENVIRONMENT DIVISIONS

NORTHERN	Cleveland, Cumbria, Durham, Northumberland, Tyne & Wear.
NORTH WEST	Cheshire, Greater Manchester, Lancashire, Merseyside.
YORKSHIRE & HUMBERSIDE	Humberside, North Yorkshire, South Yorkshire, West Yorkshire.
WEST MIDLANDS	Hereford and Worcester, Salop, Staffordshire, Warwickshire, West Midlands.
EAST MIDLANDS	Derbyshire, Leicestershire, Lincolnshire, Northamptonshire, Nottinghamshire, Cambridgeshire, Norfolk, Suffolk.
GREATER LONDON	
SOUTH EAST	Bedfordshire, Berkshire, Buckinghamshire, East Sussex, Essex, Hampshire, Hertfordshire, Kent, Oxfordshire, Surrey, West Sussex.
SOUTH WEST	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire.
WALES	Clwyd, Dyfed, Gwent, Gwynedd, Mid Glamorgan, Powys, South Glamorgan, West Glamorgan.
SCOTLAND	
NORTHERN IRELAND	

KEY: c. = approx; h = houses; i = interim completion; n/k = not yet known; susp. = (programme) suspended; t = total acreage of Borough/District quoted by L.A.; ur = under review; xld = cancelled; – = none; * = figures as published in 1981.
Figures and names of authorities underlined indicate completed programmes.

NOTE: The total number of premises in some completed programmes has been revised by the local authorities concerned to take account of new development in the area.

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
NORTHERN				
Allerdale DC (Cumbria)	n/k	5,700+	1,246	3,404[h]
Blyth Valley DC (Northumberland)	1989	17,649	2,012	7,014
Carlisle City (Cumbria)	susp.	6,092	898	2,701
Castle Morpeth(B)(Northumberland)	1983	2,173	819	1,227
Darlington(B) (Co. Durham)	-	49,375	4,806	22,833
Easington DC (Co. Durham)	-	-	1,408	5,685
Gateshead(MB) (Tyne & Wear)	1987	35,372	12,050	57,190
Hartlepool(B) (Cleveland)	1982/3	9,073	8,110	32,229
Langbaurgh(B) (Cleveland)	-	-	10,289	27,350
Middlesbrough(B) (Cleveland)	1979	12,226	12,226	52,409
Newcastle upon Tyne(M)(Tyne&Wear)	1978	34,500	34,500	128,980
North Tyneside(MB) (Tyne & Wear)	1983	20,793	12,164	55,236
Sedgefield DC (Co. Durham)	n/k	n/k	c.1,210	c.5,909
South Tyneside(MB) (Tyne & Wear)	n/k	16,285	13,120	56,366
Stockton-on-Tees(B) (Cleveland)	1985/6	48,062	11,616	39,338
Sunderland(MB) (Tyne & Wear)	n/k	34,530[t]	8,461	30,961
NORTH WESTERN				
Blackburn DC (Lancs)	1986/7	c.16,000	10,325	38,595
Bolton(MB) (Gtr. Manchester)	1993	34,527	17,770	70,602
Burnley(B) (Lancs.)	1980	23,700	23,700	43,000
Bury(MB) (Gtr. Manchester)	temp. susp.	24,506	19,560	49,825
Chorley(B) (Lancs.)	n/k	16,000	274	1,700
Crewe & Nantwich(B)(Cheshire)	xld	-	1,957	8,731
Ellesmere Port&Neston(B) Cheshire	1982	4,000	3,760	16,584
Halton BC (Cheshire)	1980	17,121	17,121	39,933
Hyndburn(B) (Lancs.)	1980	16,611	16,611	37,976
Knowsley(M) (Merseyside)	-	-	5,633	21,935
Lancaster City (Lancs.)	No return received from LA			
Liverpool(M) (Merseyside)	1986	27,189	20,189	117,353
Macclesfield(B) (Cheshire)	susp.	-	305	2,653
Manchester City(M)(Gtr.Manchester)	1984	28,720	26,715	162,376
Oldham(M) (Gtr. Manchester)	c.1990	34,871	17,574	78,623
Pendle DC (Lancs.)	1983	15,150	12,009	33,248
Preston(B) (Lancs.)	c.1996	9,500	7,733	42,840
Ribble Valley(B) (Lancs.)	n/k	n/k	432	359
Rochdale(M) (Gtr. Manchester)	1990	c.30,000	21,407	63,448
Rossendale(B) (Lancs.)	1993	34,170[t]	9,300	9,277
St. Helens(MB) (Merseyside)	1985/6	32,201	17,542	51,302
Salford City(M) (Gtr.Manchester)	1977	23,942	23,942	90,279
Sefton(M) (Merseyside)	n/k	36,325[t]	2,587	13,463
South Ribble(B) (Lancs.)	1995	27,454[t]	4,047	8,738
Stockport(MB) (Gtr. Manchester)	1984	31,147	24,702	101,645
Tameside(MB) (Gtr. Manchester)	1982	25,500	21,250	83,355
Trafford(MB) (Gtr. Manchester)	1982	26,129	24,909	93,212

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Vale Royal DC (Cheshire)	-	-	6,616	10,100[*]
Warrington(B) (Cheshire)	1981	43,527	41,027	66,789
West Lancashire DC (Lancs.)	xld	-	7,170	14,239
Wigan(MB) (Gtr. Manchester)	1995	52,918	24,919	63,983
Wirral(M) (Merseyside)	1987	38,420	17,010	86,139
YORKSHIRE & HUMBERSIDE				
Barnsley(MB) (S. Yorks)	1993	81,243	11,713	22,533
Bradford City(M)(W. Yorks)	n/k	91,444	50,838	180,106
Calderdale(MB) (W. Yorks)	1980	45,737	45,737	83,458
Craven DC (N. Norks)	susp.	19,529	5,634	7,531
Derwentside DC (Co. Durham)	n/k	66,944[t]	834	3,978
Doncaster(MB) (S. Yorks.)	1996	142,600	21,183	48,831
Glanford(B) (Humberside)	n/k	143,474[t]	15,264	497
Kingston-upon-Hull City(Humb.side)	-	17,599	8,516	56,577
Kirklees(MB) (W. Yorks.)	n/k	102,400	33,363	101,674
Leeds City(M) (W. Yorks.)	susp.	138,441	72,865	220,343
Rotherham(M) (S. Yorks)	-	69,881[t]	12,876	47,901
Rydedale (DC) (N. Yorks.)	-	261	261	3,130
Scunthorpe(B) (Humberside)	1981	4,614	4,289	16,588
Sheffield City(M) (S. Yorks.)	1982	58,048	55,945	215,905
Wakefield City(M) (W. Yorks.)	1993	n/k	26,521	52,553
York City (N. Yorks.)	n/k	7,400	4,574	21,945
WEST MIDLANDS				
Birmingham City (W. Midlands)	1985	65,309	54,271	300,578
Coventry City(M) (W. Midlands)	1984/5	23,860	8,300	41,161
Dudley(MB) (W. Midlands)	1986	24,202	19,356	80,351
East Staffordshire DC (Staffs.)	n/k	31,640	2,325	7,994[h]
Lichfield DC (Staffs.)	1984	3,468	2,624	2,587
Newcastle under Lyme (Staffs.)	-	8,000	4,450	17,500
North Shropshire DC (Salop)	n/k	c.1,310	512	1,585
North Warwickshire(B) (Warwicks)	1985	9,516	6,417	7,863
Nuneaton(B) (Warwicks)	1993	19,578	8,734	18,854
Rugby(B) (Warwicks)	1979	7,010	7,010	21,594
Sandwell(MB) (W. Midlands)	susp.	21,150	6,536	34,466
Shrewsbury & Atcham(B) (Salop)	n/k	n/k	999	4,002
Solihull(MB) (W. Midlands)	ur	44,495[t]	6,282	35,927
Staffordshire Moorlands DC (Staffs)	-	c.5,000	92	500
South Staffordshire DC (Staffs.)	-	15,814	5,186	3,066
Stoke on Trent City (Staffs.)	1986	22,949	12,949	47,191
Tamworth(B) (Staffs.)	susp.	7,647	4,089	12,845
Walsall(MB) (W. Midlands)	n/k	26,266	13,732	49,359
Warwick DC (Warwicks.)	1982	6,497	4,517	26,370
Wolverhampton(MB) (W. Midlands)	1993	17,031	9,253	56,868
Wrekin DC (Salop)	1988	19,311	7,676	14,430
Wyre Forest DC(Hereford&Worcester)	n/k	701	682	4,300

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
EAST MIDLANDS				
Amber Valley DC (Derbys)	1990	19,300	3,971	8,519
Ashfield DC (Notts)	n/k	27,205	11,539	16,774
Bassetlaw DC (Notts)	1987	20,000	6,614	11,190
Blaby DC (Leics.)	1990	20,171	5,132	10,437
Bolsover DC (Derbys)	No return received from LA			
Broxtowe DC (Notts)	1985	20,033[t]	9,479	31,823
Chesterfield(B) (Derbys)	1985	16,229	5,320	24,021
Corby DC (N'hants)	n/k	19,845	2,540	10,957
Derby(B) (Derbys)	1984	19,282	14,464	54,486*
Erewash(B) (Derbys)	1997	7,577	2,343	9,178
Gedling(B) (Notts)	-	-	3,962	21,337
High Peak DC (Derbys)	n/k	-	2,250	11,473
Leicester City (Leics)	1975	18,144	18,144	91,918
Lincoln City (Lincs)	1985	8,828	6,696	22,508
Mansfield DC (Notts)	1993	18,997	8,827	22,732
Northampton(B) (N'hants)	n/k	19,928	8,175	18,898
North East Derbyshire(Derbys)	-	-	20,510	27,108
Nottingham City (Notts)	1993	18,364	11,283	44,471
Oadby & Wigston(B) (Leics)	susp.	2,448	145	903
Rushcliffe(B) (Notts)	1983	3,045	2,097	7,989
South Derbyshire DC (Derbys)	n/k	n/k	1,669	3,155
South Kesteven DC (Lincs)	-	n/k	2,803	9,531
EAST ANGLIA				
Cambridge City (Cambs)	-	-	1,446	2,692
King's Lynn & Norwich City (Norf'k)	susp.	9,655	1,535	3,090
Peterborough City (Cambs)	-	-	5,136	17,722
West Norfolk BC (Norfolk)	-	-	841	4,377
SOUTH WEST				
Bath City (Avon)	1995	7,092	230	2,173
Bristol City (Avon)	1986/7	27,067	15,451	69,939
Cheltenham DC (Gloucs)	susp.	-	954	3,155
Exeter City (Devon)	susp.	10,952	7,278	17,757
Gloucester City (Gloucs)	-	8,314	-	-
SOUTH EAST				
Aylesbury Vale DC (Bucks)	1987	3,594	912	5,073
Basildon DC (Essex)	n/k	n/k	4,528	21,682
Bracknell DC (Berks)	1980	3,811	3,811	27,811
Brentwood DC (Essex)	-	-	227	2,856
Brighton(B) (E. Sussex)	-	14,613	1,265	17,436
Broxbourne(B) (Herts)	1990	12,903	2,913	14,728

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Canterbury City (Kent)	n/k	77,202[t]	255	2,139
Crawley(B) (W. Sussex)	1986	9,013	5,622	33,309
Dacorum DC (Herts)	xld	3,731	3,731	14,649
Dartford DC (Kent)	n/k	17,267	16,048	30,057
Epping Forest DC (Essex)	-	-	600	2,463
Gillingham(B) (Kent)	1979	11,023	11,023	40,912
Gravesham(B) (Kent)	1985	4,532	4,032	19,366
Guildford(B) (Surrey)	1985	6,000	2,855	10,517
Harlow DC (Essex)	1965	5,899	5,899	28,000
Hertsmere DC (Herts)	-	21,031	2,121	7,913
Luton(B) (Beds)	1979	10,657	10,657	71,460
Milton Keynes(B) (Bucks)	susp.	-	7,862	20,723
North Bedfordshire(B) (Beds)	1989/90	7,314	3,410	16,411
North Hertfordshire DC (Herts)	-	-	1,341	4,845
Oxford City (Oxfordshire)	1990	8,785	3,484	15,659
Portsmouth City (Hants)	c.1990	9,249	865	8,778
Reading(B) (Berks)	n/k	9,106	5,959	23,340
Rochester upon Medway(B) (Kent)	n/k	n/k	6,383	19,974
Sevenoaks DC (Kent)	xld	2,315	1,341	3,684*
Slough(B) (Berks)	n/k	6,813	4,486	22,500
Southampton City (Hants)	1982[i]	4,254	4,146	29,893
Spelthorne(B) (Surrey)	n/k	13,880	11,752	30,896
Stevenage(B) (Herts)	1982	6,252	3,511	22,345
Thurrock(B) (Essex)	susp.	45,551[t]	10,123	23,307
Watford(B) (Herts)	1979	5,275	5,275	32,000
Windsor&Maidenhead Royal(B)(Berks)	susp.	-	831	2,655
Wycombe DC (Berks)	susp.	7,091	3,818	16,525
LONDON BOROUGHS				
Corporation of London	1955	678	678	17,714
Barking & Dagenham	1984/5	8,877	6,787	49,436
Barnet	susp.	22,123	16,429	112,782
Bexley	1976	15,847	15,847	99,656
Brent	1975	10,934	10,934	95,624
Bromley	1979	29,600	29,600	124,457
Camden	1968	5,365	5,365	88,214
Croydon	susp.	21,395	13,164	105,583*
Ealing	1972	13,711	13,711	112,876
Enfield	1979	20,061	20,061	95,756
Greenwich	1972	11,724	11,724	75,673
Hackney	1967	4,814	4,814	90,507
Hammersmith & Fulham	1967	3,988	3,988	73,300
Haringey	1968	7,490	7,490	94,281
Harrow	1975	12,553	12,553	72,892
Havering	1979	29,650	29,650	100,700
Hillingdon	1981	27,258	19,361	89,140
Hounslow	1972	14,469	14,469	90,271

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Islington	1969	3,679	3,679	c.82,000
Kensington & Chelsea (Royal)	1972	2,950	2,950	25,288
Kingston upon Thames (Royal)	1980	9,135	9,135	55,738
Lambeth	1978	6,836	6,836	110,344
Lewisham	-	8,581	8,184	101,972
Merton	1977	9,380	9,380	65,905
Newham	susp.	8,986	6,023	75,879
Redbridge	1971	13,963	13,963	c.93,000
Richmond upon Thames	1972	13,454	13,454	68,651
Southwark	1990	6,981	5,832	91,898
Sutton	1977	10,727	10,727	81,544
Tower Hamlets	1968	4,875	4,875	73,460
Waltham Forest	1978	9,804	9,804	86,510
Wandsworth	1979	8,860	8,860	108,693
Westminster City	1970	5,334	5,334	13,021

NORTHERN IRELAND

Antrim (Co. Antrim)	1976	740	740	6,876
Ards(B) (Co. Down)	-	-	105	823
Armagh DC (Co. Armagh)	-	-	5	96
Ballymena(B) (Co. Antrim)	susp.	325	325	890
Belfast City (Co.Antrim&Co.Down)	1989	26,218	4,127	30,062
Castlereagh DC (Co. Down)	1983	5,911	5,428	17,756
Craigavon(B) (Co. Armagh)	-	-	5,019	9,268
Down (Co. Down)	n/k	-	482	930
Larne(B) (Co. Antrim)	-	5	5	192
Londonderry City (Londonderry)	-	-	74	546*
Newtownabbey (Co. Antrim)	n/k	n/k	1,742	6,483
North Down(B) (Co. Down)	-	-	176	765
Strabane (Co. Tyrone)	1974	54	54	750

SCOTLAND

Bearsden & Milngavie(Strathclyde)	-	7,250	7,250	16,400
Clackmannan (Central)	-	-	642	3,737
Clydebank (Strathclyde)	1979	9,239	9,239	20,256
Cunningham DC (Irvine)	1995	c.12,160	116	550*
Dumbarton (Strathclyde)	1989	11,787	4,301	9,816
Dundee City (Tayside)	1981	12,654	12,107	65,348
Dunfermline (Fife)	1992	76,800^t	931	5,309
Edinburgh City (Lothian)	1990	64,407^t	22,615	85,945
Ettrick & Lauderdale (Galashiels area only)	-	1,766	1,766	5,100
Falkirk (Central)	n/k	-	12,812	32,753
Glasgow City (Strathclyde)	1986	49,753	35,295	259,605
Hamilton (Strathclyde)	n/k	-	4,167	15,737
Inverclyde (Strathclyde)	-	-	1,789	8,869

	Target Date	Final Acreage	Acreage (In Op)	Premises (In Op)
Kilmarnock & Loudoun (Strathclyde)	-	-	101	577[n]
Kirkaldy (Fife)	n/k	n/k	5,839	7,083
Kyle & Carrick (Strathclyde)	n/k	98	n/k	406
Monklands (Strathclyde)	1987	10,128	5,138	20,482
Motherwell (Strathclyde)	1984[i]	-	816	4,137
Nithsdale (Dumfries & Galloway)	1990	3,488	2,081	2,825
Renfrew (Strathclyde)	1988	n/k	15,190	63,202
Roxburgh (Borders)	1985	1,240	426	1,900
Stirling (Central)	-	-	378	2,050
Strathkelvin (Strathclyde)	n/k	-	5,157	n/k
West Lothian (Lothian)	-	-	6,521	13,133
		WALES		
Alyn & Deeside (W) (Clwyd)	-	-	50	448
Delyn (B) (Clwyd)	-	370	140	n/k *
Newport(b) (W) (Gwent)	n/k	n/k	67	1,178
Wrexham Maelor(B) (W) (Clwyd)	-	-	2,166	10,390

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Division Technology for Society
TNO, P.O. Box 217, 2600 AE Delft.

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SICOM, Foundation for International Liaison on Environmental
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Stichting Concawe (International
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7300 AH Apeldoorn.

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Other U.S. Governmental Air Pollution Agencies and individual State Agencies are listed in an annual Directory published by the Air Pollution Control Association in co-operation with the U.S. Environmental Protection Agency.

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The International Union was originally established in 1965 with six founder members - Argentina, France, Great Britain, Japan, United States of America and West Germany. The Union consists of non-governmental organisations only and its primary functions are to promote collaboration and the exchange of information on air pollution and environmental problems and to organise, through its member associations, international congresses. The first congress of the Union was held in London in 1966; the second International Congress was held in Washington D.C., U.S.A., in December 1970, and the third International Congress in Dusseldorf, Federal Republic of Germany, in October 1973. The fourth Congress was held in Tokyo, in May 1977, and the fifth in Buenos Aires, October 1980.

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GUIDE TO FILMS & FILMSTRIPS

Following is a list of films and filmstrips on various pollution and environmental topics. Application for the loan of films, or for the purchase of audio visual aids, should be made to the relevant issuing organisation referred to in the lists. Films are on free loan unless hire charges or purchase price are quoted. Two or three weeks notice should be given in advance of borrowing/hire of films for a specific date. Please note that 'sound' films should never be run on a silent projector.

The Society welcomes information on other films suitable for inclusion in future editions of the Members' Handbook.

BRITISH GAS CORPORATION

THE AIR - MY ENEMY
Colour 25 mins. 16 mm
+ Super 8 mm

Mainly deals with contamination of the air, but other forms of pollution are described.

~~BRITAIN'S NATURAL GAS~~
~~Colour 21 mins. 16 mm~~

~~Looks at the advances made by the gas industry in the last 20 years.~~

I'M GLAD YOU ASKED THAT QUESTION
Colour 10 mins. 16 mm
+ Super 8 mm

Cartoon showing how natural gas was formed, discovered and put to use. (Suitable for 10-14 years age range.)

~~WHY DON'T YOU PAINT IT GREEN?~~
~~Colour 20 mins. 16 mm~~
~~+ Super 8 mm~~

~~Deals with the gas industry's effort to protect the environment.~~

The above films are available on free loan from:

British Gas Film Library,
Park Hall Trading Estate,
Dulwich,
London SE21 8EL
tel: 01-761 3035/6/7/8

BRITISH MEDICAL ASSOCIATION

IT TAKES YOUR BREATH AWAY 1964
B/W 10 mins. 16 mm £3.50 + VAT

Demonstrates the effect on the respiratory system of living in a polluted atmosphere.

POLLUTION 1971
Colour 10 mins. 16 mm
£3.50 + VAT

A series of 6 short 'spots' dealing with pollution problems and smoking. (No commentary.)

Available from:
BMA/BLAT FILM LIBRARY
BMA House,
Tavistock Square,
London WC1H 9JP
tel: 01-387 4499

BRITISH PETROLEUM FILM LIBRARY

THE COMBUSTION PROCESS
Colour 26 mins. 16 mm

ENERGY IN PERSPECTIVE
Colour 21 mins. 16 mm

HAZCHEM

Explains the new UK Hazard Information System label and how it works; is primarily intended for those directly concerned with the

safe movement of chemicals by road: chemical manufacturers, haulage contractors and drivers, emergency services, local authorities etc.
Colour 14 mins. 16 mm

PLANET WATER
Explains how the sea influences our climate, and considers the growing conflict between industry, recreation and coastal traffic which are pressing upon our crowded shores. Studies the fishing industry and sea-farming and examines the problem of pollution which is gradually turning parts of the sea into a cesspool.
Colour 25 mins. 16 mm

THE SHADOW OF PROGRESS
Deals with the environmental problems posed by a technological age and discusses remedies: air, water, soil pollution; quality of life.
Colour 27 mins. 16 mm

THE TIDE OF TRAFFIC
Colour 29 mins. 16 mm

WEB OF LIFE SERIES
Seven films examining the ecological balance of the world's major systems: THE LIVING LAKES; THE LIVING MOUNTAINS; THE LIVING RAIN FOREST; THE LIVING RIVER; THE LIVING SAVANNA; THE LIVING TUNDRA; THE LIVING WOODLAND.
Colour 30 mins. 16 mm

The above films are available on free loan from:

THE BP FILM LIBRARY
15 Beaconsfield Road,
London NW10 2LE
tel: 01-451 1129

CEGB FILM LIBRARY

CHANGE FOR SAFETY
Colour 24 mins. 16 mm 1970

ELECTRICITY & THE ENVIRONMENT
Colour 22 mins. 16 mm 1971

A NATURAL QUESTION
Shows nature trails and conservation around CEGB's power stations. Presented by naturalist and author, Phil Drabble.
Colour 28 mins. 16 mm & video 1978

NUCLEAR GENERATION
Colour 17 mins. 16 mm 1976

POWER ON DEMAND
Colour 15 mins. 16 mm 1975

RESEARCH FOR POWER
Shows how the massive CEGB research effort helps to keep costs down and minimises the environmental effects of power stations.
Colour 28 mins. 16 mm 1978

The above films are available on free loan from:

CENTRAL ELECTRICITY GENERATING BOARD FILM LIBRARY
Sudbury House,
15 Newgate Street,
London EC1A 7AU
tel: 01-248 1202

CENTRAL FILM LIBRARY

The Central Film Library has a large number of interesting films newly available which are listed below. For other films please see 1981 Handbook: these are still available except for ASBESTOS AT WORK and THE REASON WHY.

BEACH CLEANING TECHNIQUES
A wide selection of up-to-date equipment is seen in action dealing with oil pollution on beaches.
UK 3372
Colour 7 mins. Hire 1977

THE CONSERVATION GAME
Looks at some of the conservation and restoration work undertaken to preserve the historic environment of Chester.
UK 2770
Colour 25 mins. Free 1975

THE CONSERVATION OF NATURAL BUILDING STONE
Shows how the Building Research Establishment are working to prevent decay in buildings - caused partly by the reaction of the stone with acidic gases in the air.
UK 2805
Colour 6 mins. Free 1977

DANGEROUS NOISE
Aims to increase awareness of the potential damage to hearing by machine-made noise.
V518
B/W 16 mins. Special Price Hire 1957

THE DEVELOPMENT OF A NOISE REDUCED DUMPER
Describes the modification carried out on a dumper to reduce the noise output to an acceptable level.
UK 2793
Colour 10 mins. Free 1976

DISPERSANTS AT SEA
Shows oil pollution at sea and on the beach being cleared by Warren Spring Laboratory dispersant equipment.
UK 3371
Colour 7 mins. Hire 1977

EAR PROTECTION IN NOISE
How permanent damage to hearing may result from exposure to noise in industry.
V511
Colour 12 mins. Special Price Hire 1959

KEEPING OUT THE NOISE
Concerns the considerable effort which has been made to determine the intensity of noise from various sources.
UK 2779
Colour 25 mins. Free 1968

NOT SO MUCH A FACELIFT ...
Deals with housing and environmental schemes which leave the community structure of the neighbourhood relatively undisturbed.
UK 2762
Colour 25 mins. Free 1976

OLD HABITS DIE HARD
Re-examines the problem of the foundry - dust, fumes, molten metal, machinery.
UK 3490
Colour 32 mins. Hire 1981

OLIVER KITE'S FAWLEY
Oliver Kite, naturalist, traces the cycle of animal and plant life in the environs of the great refinery complex at Fawley, Hants.
UK 2651
Colour 23 mins. Free 1968

ONE MAN'S POISON
Safety lessons for everyone handling potentially dangerous pesticides.
UK 3415
Colour 26 mins. Special Price Hire 1979

SAVE THE SEA
Deals with many aspects of the marine environment and examines what must be done to preserve it.
V800
Colour 15 mins. Hire 1974

THEORY OF DISPERSANTS
Shows the testing of dispersant chemicals by Warren Spring Laboratory.
UK 3370
Colour 10 mins. Hire 1977

A THIRSTY WORLD
Looks at man's use of fresh water resources.
UK 3311
Colour 42 mins. Hire 1976

WASTE MANAGEMENT - SOME FACTS
Looks at what is being done to prevent excess waste in industry. Of interest to councillors, consumers and amenity groups. (Originally made as slide/tape presentation.)
UK 3275
Colour 11 mins. Hire 1975

WATCH THAT SPACE - CONFINED SPACE HAZARDS IN THE CONSTRUCTION INDUSTRY
Covers the main hazards of confined spaces on fire, flammable gas and an excess, or lack of, oxygen in the air.
UK 3379
Colour 16 mins. Special Price Hire 1978

WATCH THAT SPACE - CONFINED SPACE HAZARDS IN FACTORIES
Aimed towards management, this film encourages careful planning and proper training for workers.
UK 3380
Colour 19 mins. Special Price Hire 1978

WATCH THAT SPACE - CONFINED SPACE HAZARDS IN SHIPBUILDING
Reconstruction of a genuine accident involving an explosion and fire in a ship's hold, caused by the ignition of excess oxygen.
UK 3381
Colour 15 mins. Special Price Hire 1978

WATER
Draws attention to the developing water shortage which the world faces.
V608
Colour 14 mins. Hire

WATER FOR LIFE
Deals with desalination, and its significance in dealing with the global problem of fresh water supply.
UK 2643
Colour 14 mins. Free 1967

WE'LL NEVER SLEEP AGAIN
Shows a happily married couple (Terry Scott and June Whitfield!) living in fear of industrial noise.
UK 3438
Colour 27 mins. Hire 1980

WHATEVER HAPPENED TO THE COUNTRYSIDE?
Looks at the changes in the countryside resulting from tree felling, the ravages of Dutch Elm Disease and highly mechanised farming.
UK 3423
Colour 25 mins. Free 1979

The films above are all 16 mm.
Hire prices on request.
Available from:
CENTRAL FILM LIBRARY
Chalfont Grove,
Gerrards Cross,
Bucks. SL9 8TN
tel: Chalfont St. Giles
(02407) 4111

CONCORD FILM COUNCIL LTD.

AIR POLLUTION SERIES
Three films: Part I, 'Sources and Effects', 22 mins; Part II, 'The Science of the Situation', 25 mins; Part III, 'Methods of Control', 31 mins. Colour £11.20 per film

ALPHA OR OMEGA
Provocative film aimed at young people argues that if we are sufficiently concerned we can solve the population, pollution, energy and inflation problems that beset the human race.
Colour 15 mins. £7.80.

AND ON THE EIGHTH DAY
Pollution of the environment: water, air, earth, fire (radioactivity).
Colour 60 mins. £15.00 1970

ARK
A moral fable about the dangers of pollution and extinction.
Colour USA 20 mins. £6.20

BATES'S CAR - SWEET AS A NUT
Harold Bates's car - adapted to use methane gas made from manure on his farm.
Colour 15 mins. £6.20

BILL LOOSELEY'S HEAT PUMP
Takes heat from soil in the garden where copper pipes fitted with gas are buried, then pumps heat into the house.
Colour 10 mins. £6.60

BRAVE NEW WORLD
Conveys the atmosphere of the progression of industrialisation through a country.
Colour 12 mins. £5.20

BUTTERCUP
Follows a buttercup floating from fresh water into the filth left by industrial man.
Colour 11 mins. £6.60

CONSERVATION AND BALANCE IN NATURE
Comprehensive picture of man's relationship to his environment.
Colour 18 mins. £6.40

CRITICAL MASS
Dr. Helen Caldicott warns of the nuclear threat and effects of radiation.
Colour 20 mins. £10.00

DEAD EARTH
Survival of the environment, harmful use of defoliants.
Colour 20 mins. £7.00

DON'T SPOIL OUR WORLD
Paintings by schoolchildren on aspects of pollution.
Colour Filmstrip, for sale only.
£5.00

DUE TO LACK OF INTEREST TOMORROW WILL BE CANCELLED
Are the scientists who predict ecological disaster exaggerating the situation to gain attention?
B/2 50 mins. £13.00

THE ENERGY SERIES:
ENERGY - THE DILEMMA
Explores problems of supply and demand. Will we run out of fuel soon?
Colour USA 1974 20 mins. £7.20

ENERGY - THE NUCLEAR ALTERNATIVE
Nuclear safety issues explored.
Colour USA 1974 20 mins. £7.20

ENERGY - NEW SOURCES
Solar panels, hot water geysers, etc.
Colour 20 mins. £7.20

ENERGY - LESS IS MORE
What of the future - will we have to adopt a new way of thinking?
Colour USA 1974 18 mins. £7.20

THE FACTS ARE THESE SERIES -
NO. 6 IN A CLEANER, GREENER LAND
Pollution of air, water and land. Suitable for children.
Colour 20 mins. £7.40

FIRST MILE UP
Canadian study of air pollution.
B/W 30 mins. 1961 £7.00

HARNESS THE WIND
An animated history of wind generators.
Colour 12 mins. £5.60

HAVE OUR PLANET AND EAT IT TOO?
Strip mining - illustrates the dilemma between maintaining standards of living and preserving environment.
Colour 24 mins. £11.00

INTERVIEW WITH PAUL EHRLICH
American ecologist and author of "The Population Bomb".
B/W 40 mins. £7.20

LIVING DANGEROUSLY
Seveso disaster and after-effects.
B/W 30 mins. 1976 £9.40

MAN THE POLLUTER
A richly illustrated cartoon of man's capacity to foul his own nest and ignore it.
Colour 53 mins. 1978 £16.00

A MATTER OF ATTITUDES
A project to discover how much people are aware of pollution in Canada.
B/W 30 mins. £9.40

MULTIPLY AND SUBDUE THE EARTH
Deals in detail with man's misuse of the environment.
Colour 50 mins. £13.80

NATURE'S WAY
Looks at eco-systems and man's interactions with natural environments. Suitable for all ages.
Colour 15 mins. £6.20

NO FITTING HABITAT
A study of the city - problems and possible solutions.
Colour 30 mins. 1979 £9.20

NUCLEAR NIGHTMARE
The Three Mile Island, Harrisburg, USA, crisis Granada 'World in Action' Programme.
Colour 30 mins. 1979 £13.00

PERSISTENT AND FINANGLING
True story of a pressure group - 'Stop: Society to Overcome Pollution' - in Montreal.
B/W 60 mins. £7.60

POLLUTION: 1st, 2nd, 3rd
Three films dealing with the subjects of Water, Air and Solid Waste Pollution. Part 1, 26 mins; Part 2, 22 mins; Part 3, 23 mins.
Colour £9.00 each film

POPULATION AND POLLUTION
Links these two vital subjects. Suitable for older children.
Colour USA 1970 18 mins. £6.20

SMALL IS BEAUTIFUL
A filmed biography of E. F. Schumacher.
Colour 27 mins. 1979 £10.00

SOLAR ENERGY - HOW IT WORKS
Explanatory film for children and lay audiences.
Colour 15 mins. £8.00

THE SOLAR HOUSEHOLD
Looks at various domestic systems available and research into reliability of different materials and designs.
Colour 25 mins. 1978 £8.20

THE TIRION PROGRAMME
World in Action Film which discusses the pressurised water nuclear reactor.
Colour 13 mins. £11.00

TRAFFIC OR TRANSIT
The effects of traffic on the environment, particularly in the city of Hamburg.
Colour 30 mins. £11.20

WHO STOLE THE QUIET DAY?
Noise - comprehensive film suitable for most ages.
Colour 16 mins. USA 1973 £6.40

WHO TAKES THE LEAD?
The moral and physical dangers created by pollution are focused on this playlet.
B/W 25 mins. £6.00

The films listed above are all 16 mm with optical soundtrack. The hire charges shown are for one day (25% extra for each additional day). Carriage and VAT are not included in the hire charge. Free catalogues are available listing Ecology and Nuclear Power Films. Complete 1980/82 catalogue is

available (cash with order).
Price £1.50, + postage & packing.

Available from:
CONCORD FILMS COUNCIL LTD
201 Felixstowe Road,
Ipswich, Suffolk IP3 9BJ
tel: Ipswich (0473) 76012

ELECTRICITY COUNCIL FILM LIBRARY

ELECTRIC VEHICLES - WHAT ARE THE FACTS?
Colour 20 mins. 16/8 mm

On free loan from:
THE ELECTRICITY COUNCIL FILM LIBRARY
15 Beaconsfield Road,
London NW10 2LE

Additional information is available from UNDERSTANDING ELECTRICITY, the educational information service sponsored by the electricity supply industry in the United Kingdom and the Republic of Ireland, and the UK Atomic Energy Authority.

A catalogue lists 16 mm films, 35 mm filmstrips, posters, publications, information sheets, wall charts and other educational material.

Facilities (including environmental study centres, nature trails and visits to power stations) are provided by the Regions of the Central Electricity Generating Board and the Supply Undertakings in Scotland and Ireland. Details from UNDERSTANDING ELECTRICITY, Electricity Council, 30 Millbank, London SW1P 4RD

FIELD STUDIES COUNCIL

THE HIDDEN WORLD
Colour 19½ mins. 16 mm

Available from The Secretary
FIELDS STUDIES COUNCIL
62 Wilson Street,
London EC2A 2BU
tel: 01-247 4651

GUILD SOUND & VISION LTD.

A LOAD OF OLD RUBBISH
Note: This film is available on free loan to Local Governments and schools who should apply direct to the Public Information Branch, Greater London Council, Room 226, The County Hall, Greater London Council, London SE1
Colour 26 mins.

LOOKING AT THE RIVER
A look at the essential role of the river in the environment. (This film and TAKEN FOR GRANTED available on free loan to anyone living within the Thames Water Region.)
Colour 12 mins. 16 mm
£6.40 + VAT

TAKEN FOR GRANTED
Colour 15 mins.

The above films are available from:
GUILD SOUND & VISION LTD.
Woodston House,
Oundle Road,
Peterborough PE2 9PZ
tel: Peterborough (0733) 63122

LOUGHBOROUGH UNIVERSITY ENVIRONMENTAL FILMS

AIR POLLUTION
1. SOURCES AND EFFECTS*
Air pollutants are particulates, gas or radioactive materials from both natural and man-made sources. These are detailed, their effects on people and the environment illustrated.
Colour 20 mins. £16 (2 days)

2. THE SCIENCE OF THE SITUATION*
Measurements of size, density and shape classify particles and to a large extent their behaviour in air. The film shows how knowledge of the nature and behaviour of the material to be removed is necessary before deciding which type of equipment is most suitable.
Colour 22 mins. £16 (2 days)

3. METHODS OF CONTROL
Intelligent air pollution legislation based on scientific understanding balances environmental improvement with economic realism. The balance is between conservation, pollution and improving standards of living.
Colour 28 mins. £18 (2 days)

WATER POLLUTION

1. QUALITY AND SUPPLY
To maintain the quality of mains water, collected, treated and distributed by the Water Authorities requires close control of waste water discharges by industry at all stages. Costs of supplying and treating water, sources and effects of river pollution and control by the measurement of biochemical oxygen demand are discussed.
Colour 27 mins. £18 (2 days)

2. USE AND TREATMENT*
Shows the basis of charges for disposing of waste water from industry. The treatment of used water both before and after discharge to sewer is discussed and the point made that major cost savings can result by relating quality to use, by conservation, re-cycling and re-use.
Colour 28 mins. £18 (2 days)

NOISE

1. NOISE AND PEOPLE*
Shows how various are the effects of noise in different situations. Simple and complex sounds are shown on the oscilloscope and spectrum analyser. Loudness, intensity, decibels and the use of sound level meters are explained.
Colour 18 mins. £18 (2 days)

2. THE SCIENCE OF SOUND*
The physical principles which govern the behaviour of sound are explained. What we hear depends on what happens to sound as it travels. The effects of distance, atmospheric variations and obstacles are shown.
Colour 20 mins. £16 (2 days)

3. CONTROL OF NOISE
Most noise comes from machines so that the more machines the greater the problem, unless the source of the noise is tackled. The principles and practice of effective noise reduction by distance, barriers, insulation and personal protection are described.
Colour 19 mins. £16 (2 days)

4. NOISE (NCB)
Sequences selected by the NCB for training purposes from Noise 1 & 3 are combined to provide a general awareness film.
Colour £18 (2 days)

THE BUILT ENVIRONMENT BUILDING FOR PEOPLE
Shows how integrated environmental design can create buildings which provide a satisfactory environment, are economical to run and maintain, and are aesthetic. Form, shape and materials affect the amount of noise, heat, air and light flowing into, out of or around buildings as well as the aesthetics and structural system. Design and research in building environmental engineering are

emphasised.
Colour 35 mins. £22 (2 days)

* Also available as Sony U-matic video cassettes. Special hire rates for educationsl establishments.

Please note that these prices may have changed since going to press.

Available from:
Sonia Withers,
Centre for Extension Studies,
LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY
Loughborough,
Leics. LE11 3TU
tel: (0509) 67494

MOTHERWELL BRIDGE TACOL LTD.

NO TIPPING
Colour 14 mins. 16 mm

Available from:
MOTHERWELL BRIDGE TACOL LTD.
Green Dragon House,
64/70 High Street,
Croydon,
Surrey CR0 1NA
tel: 01-686 6917

N.C.B. FILM LIBRARY

CLEAN AIR AT HANDSWORTH
Colour 8 mins. 16 mm 1967/72

CLEAR THE AIR
Colour 11 mins. 16 mm 1976

CHIMNEYS
Colour 21 mins. 16 mm 1975

DISTRICT HEATING
Colour 24 mins. 16 mm 1972

DURHAM - THE CHANGING FACE OF A COUNTY
Shows how colliery spoil is being taken out to sea and Durham's beaches being reclaimed.
Colour 17 mins. 16 mm 1978

GETTING THE BEST OUT OF SUNBRITE
Colour 7 mins. 16 mm 1977

INCINERATE - WITH COAL
Colour 26 mins. 16 mm 1973

LIVING FIRE
Colour 5½ mins. 16 mm 1973

NOISE
An introduction to noise control.
Colour 20 mins. 16 mm 1981

NOT JUST FOR BURNING
RESEARCH INTO COAL AT C.R.E.
1971 revised 1974.
Colour 25 mins. 16 mm

SFAS - SOLID FUEL ADVISORY SERVICE
Colour 16 mins. 16 mm 1975

TOMORROW'S COAL
Coal 27 mins. 16 mm 1974

WELCOME HOME
Colour 22 mins. 16 mm 1968

The above films are available on free loan (£2 handling charge per programme) from:
NATIONAL COAL BOARD
Film Branch, Hobart House,
Grosvenor Place,
London SW1X 7AE
tel: 01-235 2020
telex: 882161

SHEFFIELD PUBLICITY OFFICE

CLEAN AIR CITY
Colour 25 mins. Free loan.

Available from:
SHEFFIELD PUBLICITY OFFICE
Town Hall,
Sheffield 1.
tel: (0742) 734068

SHELL FILM LIBRARY

ENVIRONMENT IN THE BALANCE
Shows how geological, topographical and social developments in Britain helped to shape our environment. - Discusses industrial expansion, population growth and pollution.

Please note that this is a new version of the film originally produced in 1970.
Colour 30 mins. 16 mm

THE RIVER MUST LIVE
Balance of life in a healthy river, effects of pollution.
Colour 21 mins. 16 mm 1966 (re-edited 1976)

WORLD OF OIL
Series of 7 self-contained films which forms an introduction to the subject of oil for pupils taking CSE or O Level in Science or Geography. Parts 1-3 and 4-6 are available either separately or on two reels of three parts each. Borrowers should state their preference.

1. Oil Formation 5 mins.
2. Where and How Oil is Found 7 mins.
3. Drilling for Oil 8 mins.
4. From Well to Refinery 5 mins.
5. The Refinery 10 mins.
6. Distribution 7 mins.
7. Natural Gas and the Petroleum Gases 11 mins.

Colour 53 mins.(total) 1976

The above films are available on free loan from:
SHELL FILM LIBRARY
25 The Burroughs,
Hendon,
London NW4 4AT
tel: 01-202 7803

BARRY WILES FILMS

IF YOU CAN KEEP YOUR COOL
Advantages of air conditioning - centres on busy disc jockey. Electricity Council, 1978.
Colour 10 mins. Super 8 mm only. Free loan.

NOW AND THEN
Development of the British Gas Industry. British Gas Corporation.
Colour 28 mins. Super 8 mm only. Free loan.

RUBBISH BY RAIL
Waste railborne to tipping sites in worked-out gravel pits, later restored for agricultural use. British Transport Films, 1977.
Colour 7 mins. Super 8 mm only. 75p fee.

The above films are available from:
BARRY WILES FILMS
Screen House,
135 Borden Lane,
Sittingbourne,
Kent ME10 1BY
tel: (0795) 25816

GENERAL AUDIO-VISUAL TEACHING AIDS (SLIDES, CASSETTES ETC.) ON ENVIRONMENTAL SUBJECTS

Charges quoted are purchase prices.

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"EXTRACTION, CONSERVATION AND POLLUTION"
Set of 24 aerial photographs taken of different areas in Britain, e.g. air and sea pollution by coastal industrial plant, Workington, Cumberland.
Available as 9 in. x 7 in. B/W prints, £3.90 set; overhead projector transparencies, £12.10 set; 35 mm slides, £4.30 set.

A free proofing library service.

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Boreham Wood,
Hertfordshire WD6 1EJ
tel: 01-207 0666

ASBESTOS INFORMATION CENTRE
A slide-script presentation 'Asbestos in Building' based on the free AIC publication. Is

intended to assist the building owner, or his agent, to identify asbestos-containing installations and to determine the precautions required to protect the building occupants or maintenance workers.
35 mins.

Available from:
ASBESTOS INFORMATION CENTRE LTD.
Sackville House,
40 Piccadilly,
London W1V 9PA
tel: 01-439 9231

THE BLAT CENTRE

THE WRITING ON THE WALL
A synchronised slide/tape programme parodying in verse and drawings "A Christmas Carol".

The programme points out five of the main dangers of smoking and is suitable for any age from 10 years upwards.
6 mins. £20.00

CAMERA TALKS LTD.

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168	"BRONCHITIS"
332	"THE ENVIRONMENTAL HEALTH OFFICER"(colour)
395/1-2	"HAZARDOUS MATERIALS IN INDUSTRY"
263/1-2	"NOISE AND HEARING" Parts 1 and 2.
141/2	"MAINTENANCE OF THE AIRWAY"
307	"POLLUTION" (colour)
73/7	"THE RESPIRATORY SYSTEM"
232	"THE ROLE OF OXYGEN IN THE HUMAN BODY"
381	"WHAT DO YOU THINK ABOUT SMOKING?"

35 mm filmstrips £10.95 per part; slide sets in boxes £14.95 per part, in album pages £16.95 per part, in cabinet files £16.95 per part, in wallets £19.95 per part; cassetted tape commentaries (pulsed) £8.95 per part; printed commentaries per part £0.95 each.

EDUCATION PRODUCTIONS LTD.

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A study folder containing six work cards, six study prints and data sheet. Produced in collaboration with Gas Council.
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"CARING FOR OUR COUNTRYSIDE"
A series of filmstrips investigating man's impact on the countryside. The series includes:

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"MAN AND THE COUNTRYSIDE - CONSERVATION AND RECLAMATION"

Available in single or double frame filmstrip, £4.05 each. The whole series is available as a complete set at £11.00.

"MAN AND HIS ENVIRONMENT" double or single frame filmstrip, £4.05.

"OUR CLIMATE AND WEATHER" double or single frame filmstrip, £4.05.
Optional tape, £4.00.

"THE WATER CYCLE"
12 slide set £3.15.

Available from:
EDUCATIONAL PRODUCTIONS LTD.
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Wakefield,
Yorkshire WF3 2JN
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MOTHERWELL BRIDGE TACOL LTD.

"DONCASTER REFUSE RECYCLING PLANT"
Of considerable environmental interest, this is a video cassette including commentary.
10 mins. For play on a Sony U-Matic system.

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Photo discussion pack on conventional and alternative energy resources. £2.60 + VAT

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Photo discussion pack illustrating the impact of the motor car on our environment. £2.60 + VAT

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Photo discussion pack on small scale pollution including smoking and the use of aerosols.
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Photopack surveys main forms of pollution, noting successes and areas where action still necessary. £2.60 + VAT

"RESPIRATION"
30 x 40 in chart shows the organs of external and the processes of internal respiration. Pictures make the point of air pollution and refer to lung cancer. With chart notes. £2.60 + VAT

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Ten large photographs deal with some of the problems arising from the increasing volume of transport and look at some attempted solutions. £2.60 + VAT

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Each of the above slidefolios contains 12 slides and costs

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6 single frame filmstrips and six cassettes. £89.30.

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Available from:
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Chipping Sodbury,
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tel: Bristol (0272) 773422

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"AIR POLLUTION"
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Slide sets & notes: £10.00 each part
No cassettes

"THE AIR YOU BREATHE"
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No cassettes

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London NW1 6XP
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15 Tooks Court, London EC4A 1LA
tel: 01-831 7581
telex: 23485

Provision of technical information and advice. The Association has produced 5 booklets about specific applications which are available from the above address at 25p each (postage and packing free). Also general information booklet about Association and Members - free.

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(For Branch Offices, see heading under Directory of Organisations)

NIFES provides a complete advisory service on energy utilisation and conservation and associated pollution problems. A full consultancy service is provided for the design and specification of new plant and services, including all types of refuse disposal equipment.

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Department of Industry,
PO Box 20, Gunnels Wood Road,
Stevenage, Herts. SG1 2BX
tel: 0438 3388
telex: 82250

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b) mathematical and wind tunnel modelling of air pollutant dispersion. Includes prediction of air pollution concentration on regional and local scale, chimney height determination and dispersion of hazardous materials (e.g. dense gas spills);

c) methods of measurement and assessment of pollutant observations in the ambient atmosphere.

DR. PAUL T. WILLIAMS BSc MSc PhD CEng FGS MInstE

2 Ridge Mount, Cliff Road,
Leeds LS6 2HD
tel: 0532 21751, ext. 295
0532 758735 (home)

Industrial pollution analyst and consultant.

ANALYSIS FOR INDUSTRY

Factories 2/3, Bosworth House,
High Street, Thorpe-le-Soken,
Essex CO16 0EA
tel: Clacton-on-Sea 861714
(STD 0255)
Colchester 70315
(STD o206)

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TRADE DIRECTORY & BUYERS' GUIDE

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ACTAIR
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Actair International Limited is a British Company, specialising in the field of environmental control. It manufactures systems and equipment for air conditioning, electrostatic air cleaning, industrial dust and fume control, cooling towers and oil filtration; for sale in both home and export markets.

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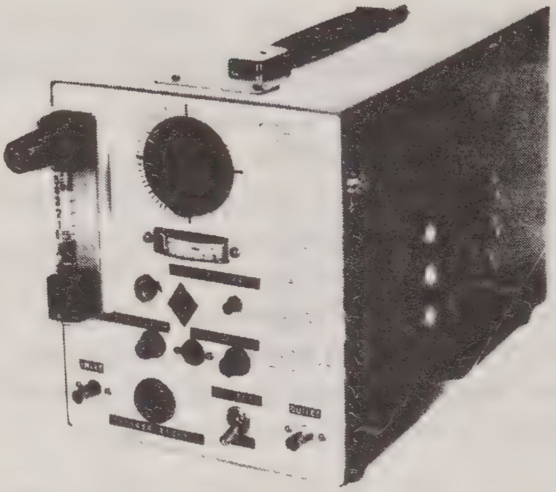

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Bassaire
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Manufacturers of the Bassaire range of laminar flow clean air equipment, clean air cabinets, work stations and filter fan modules – contractors installing clean rooms, dust-free laboratories, standards rooms, S.P.F. isolators, animal enclosures and medical isolators, operating theatres and sterile enclosures.

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Rathgar Road, London SW9 7ER
tel: 01-274 4066
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Warminster, Wilts. BA12 6BT
tel: 0747 860481

As well as expanding their industrial chimney business, Beaumonts are now producing a device known as the Beauvent G.S.C. which prevents most of the unburnt solids produced in oil fired burning from being emitted into the atmosphere. The G.S.C. can be fitted into the base of any new Beauvent chimney.

BRISTOL INDUSTRIAL & RESEARCH ASSOCIATES LTD.
6 Combe Road, Portishead,
Bristol BS20 9JB
tel: Portishead (0272) 847787
telex: 444214

Distributors of scientific equipment, specialising in equipment for the detection and measurement of airborne pollution.

BRUEL & KJAER (UK) LTD.
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Specialists in equipment manufactured for the measurement, analysis and recording of noise and vibration. A full range of major items of equipment is available, supplemented by a variety of accessories.

A wide selection of illustrated leaflets and booklets relating to noise and vibration measurement is also available free upon request.

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London N1 7ND
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telex: 26 16 41
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Manufacturers of instruments for sampling industrial air pollution including dusts, asbestos, lead, gases, chemicals and fumes - wherever the pollutant is harmful to the health of workers or to the quality of a product. Also included is a wide range of meteorological instruments for measuring and recording environmental factors such as temperature, humidity and airflow.

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Woodrolfe Road, Tollesbury, Essex.
tel: Tollesbury 342

Electric resistance furnaces (450°C to 1750°C) in standard styles and sizes and also 'specials' to meet individual requirements for pottery glass annealing and decoration, stained glass, enamelling, laboratory processes, wire annealing, heat treatment, etc.

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RESEARCH LIMITED

Cirrus Research Ltd. have a unique range of Sound Level Measuring Meters ranging from the simple CRL 4.12 Indicator, via the self-calibrating CRL 2.21A, to the full precision grade CRL 2.32.

The top of the range is the acoustic measuring system, the CRL 2.35, which accepts plug-in microphones and signal processors to make it the most versatile sound level meter available.

CLEERBURN LTD.
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INDUSTRIAL
INCINERATORS

Cleerburn Limited supply a full range of Industrial Incinerators designed for the smokeless incineration of solid wastes, heat recovery for both Air heating and Water heating. A new feature is a range of Cleerburn Models for the Thermal incineration of gaseous industrial wastes. Technical advice is available on every aspect of incineration.

COALITE GROUP PLC
Fuel Processing Division,
P.O. Box No. 21, Chesterfield,
Derbyshire S44 6AB
tel: (0246) 822281/9
telex: 54250

COALITE

The Fuel Processing Division manufactures 'Coalite' smokeless coal and is Britain's largest independent producer of solid smokeless fuel for open fires, room heaters and boilers.

The Company has three works in Yorkshire and also one at Bolsover, Derbyshire which is linked to 'Coalite's' own refinery. It also owns Randolph Coke and Chemical Company at West Auckland.

COURTAULDS ENGINEERING LTD.
P.O. Box 11, Foleshill Road,
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CEL is an engineering and contracting company providing design, engineering, management, procurement and commissioning services for the textiles and fibres, fine and heavy chemicals. plastics, paint, brewing, food processing, pharmaceuticals, wood pulp, paper and metal refining industries. They are registered by the Government as consultants for MAPCON and Energy conservation, as well as being internationally recognised for their specialist knowledge in effluent treatment and solvent recovery.

CROWCON INSTRUMENTS LTD.
Temple Road, Cowley, Oxford.
tel: 0865 776707
telex: 837688

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Crowcon Instruments manufacture instruments and equipment for the detection of flammable gases, vapours and oxygen.

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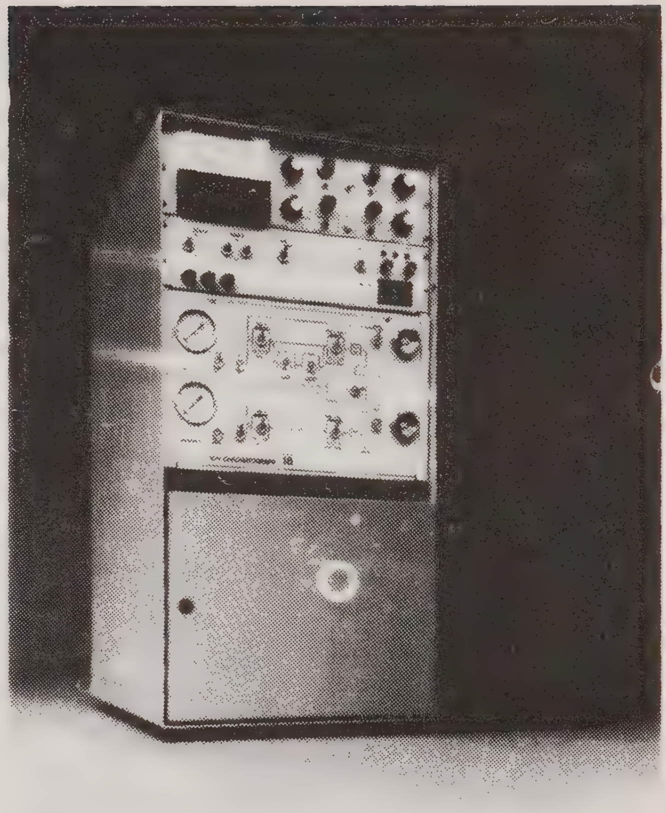

Air pollution monitoring, Water pollution monitoring, Industrial process monitoring, Ion determination in power production waters and stack gases.

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Co. Durham DH3 2SF
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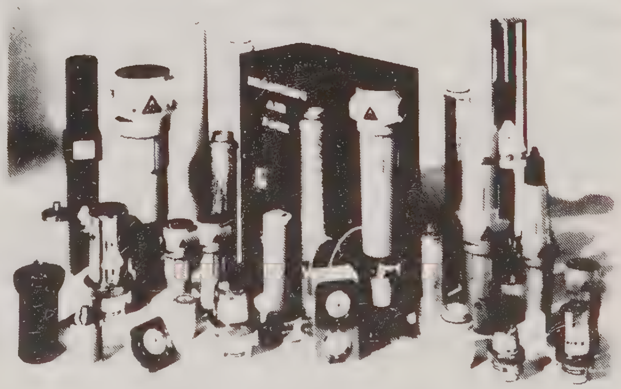

World leaders in compressed air, gas and liquid filtration. Comprehensive range of filtration

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Filters for: oil/water removal, odour removal, liquid filters, air sterilisation, vacuum pump protection, oil mist eliminators for vacuum pumps, high pressure, steam, autoclave, compressed air heaters, breathing air packs, packaged air filtration units, etc. Range of filter elements to fit filter housings of other manufacturers. Design and advisory service, filters manufactured to customer specification.

DUST CONTROL EQUIPMENT LTD.
Thurmaston, Leicester LE4 8HP
tel: (0533) 696161
telex: 342409 DUST G
telegrams: Dust Leicester Telex

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Design, manufacture, sale and installation of dust control equipment for industrial process applications. Products include a wide range of dust control filtration equipment including integral fabric unit filters, tubular filters, self-induced spray wet de-dusters, dust control units, automatic filtration systems and custom-built installations.

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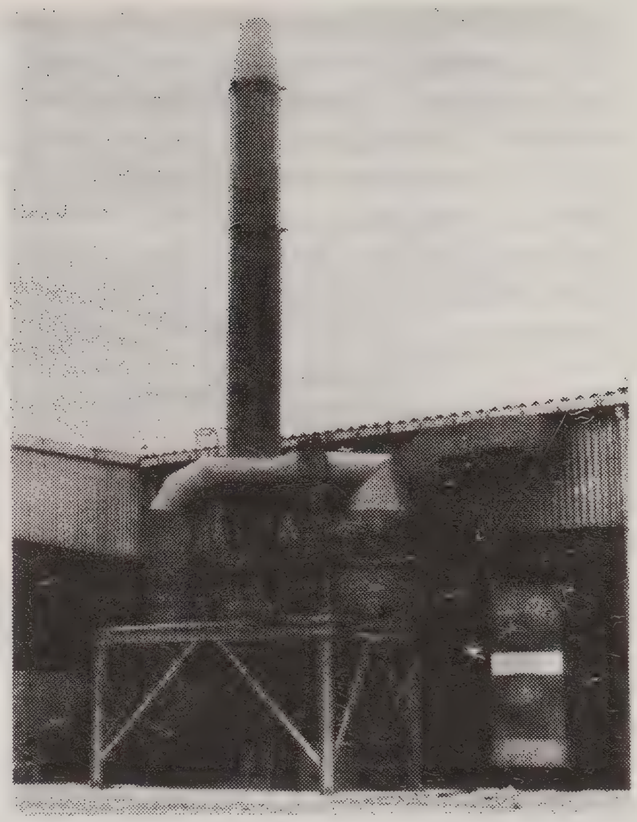
tel: (0296) 28011
telex: 83633



Complete service in Design, Manufacture and Installations of Fume Extraction, Scubbing Systems and Mist Eliminators engineered to suit client conditions. Designed to conform to latest Health and Safety Executive requirements. Product range includes: Tanks and Vacuum Filters, all manufactured in U.P.V.C. Polypropylene and G.R.P. Also manufacturers of Electroplating Plant and heavy current D.C. Switchgear.

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Engelhard Industries Ltd. offer design, manufacturing and production facilities.
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Services: Design and site supervisory and commissioning engineers.

ENVIRONMENTAL PROTECTION EQUIPMENT MANUFACTURERS ASSOCIATION
136 North Street,
Brighton BN1 1RG
tel: (0273) 26313

EPEMA was inaugurated in September 1972 under the auspices of NSCA. EPEMA is a non-profit making Association financed entirely by subscriptions from its members. It consists of manufacturers and installers of equipment designed to reduce and/or monitor pollution emitted to the environment.

The Association ensures that its members manufacture, market and install equipment of the required standard.

A copy of our Members' Handbook, which gives details of our Association and our members will be forwarded upon request.

ERG ODOUR PURIFICATION SYSTEMS LTD.
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Specialists in Air Pollution Control and sole licensees for Patented Oxyflow Odour Control Systems. Total service capability, including design, installation and commissioning ensures that each system is specifically engineered to suit each application. A member company of The Environmental Resource Group, the leading exponents in Effluent Treatment and Metal Recovery.

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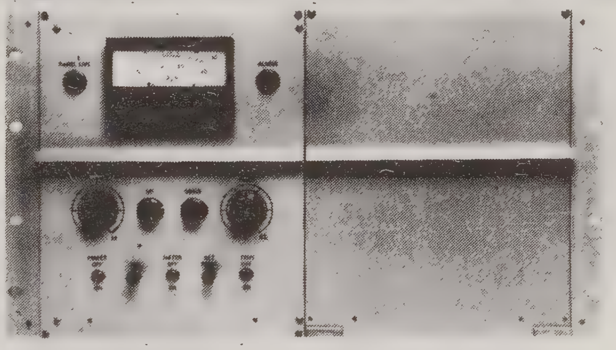
telex: 41348

Hamworthy



The Combustion Division of Hamworthy covers every aspect of combustion engineering from the supply of modular boilers and radiant heaters for commercial use to oil and gas firing equipment for some of the world's largest generating stations. Other manufactured items include fully automatic registers for dual fuel burners for utilising both gas and oil and combustion control equipment.

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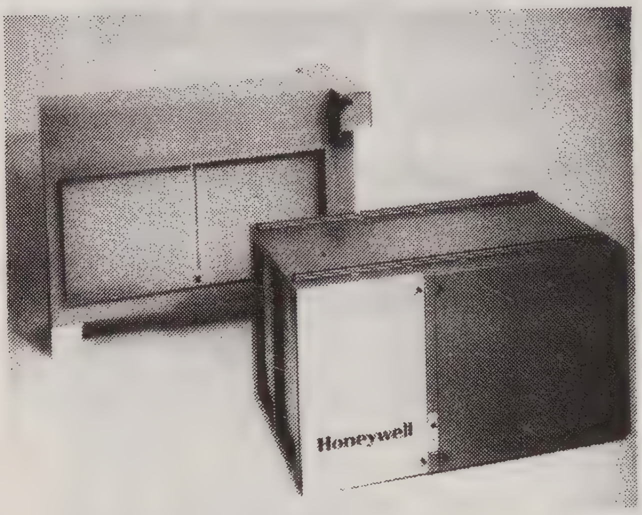

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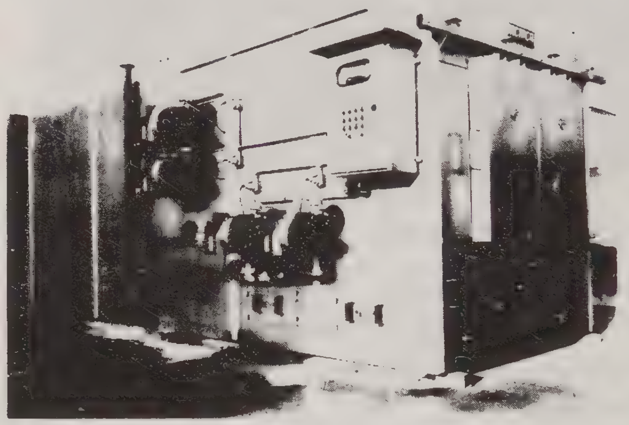

Standard and Special Purpose Incinerators and energy recovery systems for solid and liquid wastes arising from many sources including Industrial, Chemical, Municipal, Hospital, Veterinary, Security, Pathological, Institutional, Commercial and Governmental Establishments.

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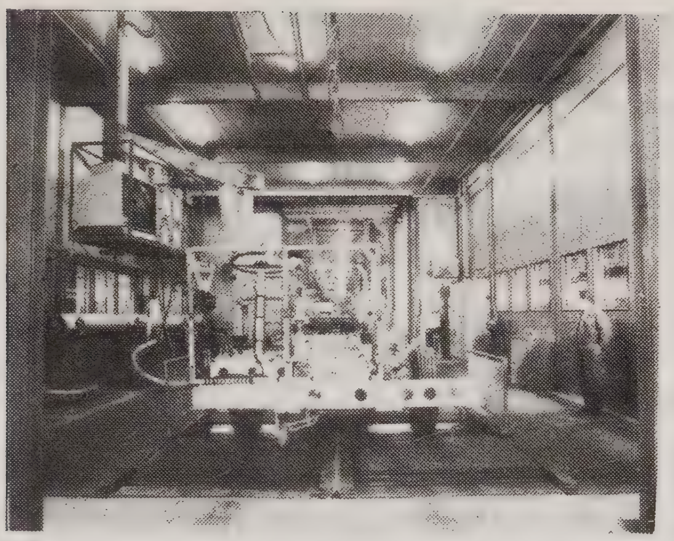

the most simple applications to the major turnkey project.

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telex: 337273
London Office:
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tel: 01-965 1157

Environmental Protection Services
The scientific consulting companies, Bostock Hill and Rigby, Thresh Beale and Suckling, Consultox Laboratories and Environmental Analysis Limited now offer their combined services under the new title I.C.L.S. Laboratories Limited.

In the UK, services are offered from Birmingham and London, while overseas companies in the group operate from Singapore, Malaysia, South Africa and Holland. The group's services include atmospheric pollution studies (of solvents, dusts, asbestos, metals and fumes) with surveys and analysis undertaken, liaison with HSE, EMAS and other regulating bodies, and preparation of safe handling procedures for dangerous materials. Examination, survey and design of remedial measures for contaminated sites including assessment of hazards and supervision of remedial work. A similar service is available for water and effluent problems; also analysis of foodstuffs, beverages, water, chemicals, pharmaceuticals, fuels and soil. The group is expanding into new fields; energy conservation, virology and EIA.

JOHN LAITHWAITE ASSOCIATES LTD.
Belmont Trading Estate,
Rochdale Road,
Sowerby Bridge, W. Yorkshire.

John Laithwaite Associates Ltd. manufacture **Belmont Air Cleaners**, a new range of British made chemical and electrostatic air cleaners to rid indoor atmospheres of smells, smoke and other pollutants. The Belmont ES 3 and ES 4 models clean contaminated air: particles of smoke, dust and dirt are electrically charged and collected. The Belmont C3 and C4 models remove unpleasant and harmful smells, with a chemi-absorbent filter, which condenses and absorbs harmful vapour molecules, totally neutralising their effects.

LYON & PYE LTD.
543 Prescot Road, St. Helens,
Merseyside WA10 3BZ
tel: 0744 20925
Sales contact: Mr. E. Heward

Manufacturers of excess and controlled air incinerators for the disposal of a wide variety of industriaal and commercial waste, complete with heat recovery in the form of L.P.H.W. or steam generation from the exhaust gas via waste heat boilers.
Other products: spirally wound ducting and fittings.
Also fabricators of ducting, tanks, cyclones in mild and stainless steel. Specialists in non-ferrous fabrication.

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tel: (04482) 3851
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cascade international

Design, consultancy and equipment supply in the field of gas-liquid interface engineering and its application in worldwide environmental protection for: dust removal, odour removal, toxic gas neutralisation, fume and flue gas scrubbing, liquid effluent treatment (domestic and industrial); using proprietary low energy systems and technology now incorporated into more than 1500 operating units worldwide.

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Chew Moor Lane,
Westhoughton,
Bolton, Lancs. BL5 3JL
tel: (0942) 815111
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MB

Metal Box Engineering

Manufacturers of Thermal Oxidisers and Heat Recovery Systems for pollution and odour control; Liquid Waste Incinerators, and Gas/Air Coolers, under licence from Smith Environmental Corporation, USA. Services include: Consultancy, design, manufacture, installation and commissioning. A full range of well-proven equipment is offered.

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P.O. Box No. 11, Northwich,
Cheshire CW8 4DX
tel: (0606) 74488
telex: 66-86633
Local offices at: Aberdeen, Belfast, Dublin, Glasgow, Leamington Spa, London, Chester, Stockton-on-Tees, Swansea, Sheffield.

NALFLOC

Nalfloc Limited was founded by the association of the former "Alfloc" Water Treatment Service of ICI Ltd. and the Nalco Chemical Company.

Nalfloc provides a wide range of services, equipment and specialty chemicals for water and effluent treatment, for oil and petroleum industry, for paper making, for the metal industry, for the marine world, and for general process uses throughout industry.

IMI NORGREN LTD.
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Warwickshire CV36 4PX
tel: (0608) 61676
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IMI Norgren Limited. World leading manufacturer of compressed air processing equipment including new DESIGN CENTRE 'AWARD WINNING' Olympian Plug-in System. Filters, Pressure Regulators, Air Line Lubricators. Breathing Air Sets, Vacuum Filters, Water Filters, Liquid Regulators, CO_2 Regulators. Fluidic Devices and Systems. Odour Control Equipment.

PEABODY HOLMES LTD.
Turnbridge, Huddersfield HD1 6RB
tel: (0484) 22222
telex: 51306
London: 17/27 Garratt Lane,
London SW18 4BY
tel: 01-874 6491
telex: 928632

Peabody Holmes

Peabody Holmes provide total capability in industrial atmospheric pollution control. This means design, manufacture, erection and commissioning of a comprehensive range of plant including venturi and impingement plate scubbers and multi-cell cyclones. Other equipment includes incinerators for the destruction of poisonous or objectionable liquids or gases from industrial processes. Oil, gas, pulverised fuel and combined fuel burners.

PHOENIX BURNERS LTD.
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Nor-Ray-Vac Integrated System
Nor-Ray-Vac is a patented gas-fired infra-red radiant space heating system for commercial, industrial buildings and showrooms (British Gas approved). A continuous run of polished aluminium reflectors fitted over lengths of 2½in. radiant pipe ensures 90% efficiency.

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From 40,000 BTU (12 Kw) to 15,000,000 (5,000 Kw) in multiples of 40,000 (12 Kw) 60,000 (18 Kw) or 80,000 (23.4 Kw)

Sitework
Comprehensive sets of parts facilitate rapid and economical site work.

Operation and control
Control by thermostat and a time clock.

Type of gas
Natural Gas, L.P.G., Butane/air mixtures, manufactured gas.

Other products
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Workington, Cumbria CA14 4JL
tel: Workington 3521/2/3/4
telex: 64157

POLKINGHORNE
INDUSTRIES LIMITED

Manufacturer of electronic measurement, alarm, recording and control equipment for various physical variables including temperature, motor speed, moisture level, pressure and filter efficiency. Also design and manufacture of customised special electronic controls for office machines, automatic washing machines, automobiles, printing machines, etc.

PULSAR INSTRUMENTS
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North Yorkshire YO11 1UN
tel: (0723) 71351

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Pulsar Instruments, originally American but now wholly made in UK, offer an economically designed range of hand held Noise Meters. These range from the Model 83 and 85 industrial units up to the Model 44 full precision grade Sound Level Meter with interchangeable microphones, varying functions, etc. Pulsar units are highly competitive and cover all specifications up to IEC 651, grade 1.

REXCO LIMITED
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Crow Hill Drive, Mansfield,
Notts. NG19 7AZ
tel: Mansfield 22644
telex: Rexco Mansfield 377142

Domestic Solid Smokeless Fuels and Industrial Chars, produced at Comrie, nr. Dunfermline, Scotland and Ollerton, Nottinghamshire.

REXCO LIMITED

In Scotland and the North of England, Rexco, for open fires; Rexcobrite, for room heaters, boilers and cookers. In the remainder of England and Wales, Royal for open fires and Rexco Nuts, for room heaters, boilers and cookers.

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Hoo Farm Industrial Estate,
Worcester Road,
Kidderminster, Worcs.
tel: (0562) 743908 & 743933
telex: 312242 MIDTLXG

The Simdean-Techfina Multi-cell Scrubber, a new gas-liquid contactor, with gas washing and a special demister section. Each individual cell performs with constant aero and hydronamic characteristics.
Design, manufacture and installation of high strength, reinforced, corrosion resistant custom plastic products complete technical engineering aid:
Ductwork: Cylindrical or rectangular in PVC or polypropylene material for fume extraction systems and general ventilation; where high pressure or increased impact resistance required, ductwork can be externally reinforced with GRP.
Tank Lining to steel vessels and concrete holding pits;
Tankage; and **General Fabrications**, including laboratory fittings, fume cupboards and complete layouts for 'clean rooms'. A range of all plastic ventilation fans for handling of corrosive fumes.

STERLING INDUSTRIAL
Chapeltown, Sheffield S30 4YP
tel: Sheffield (0742) 467171
telex: 547096

Sterling Industrial

A range of odour control products and equipment are offered under the brand name of ZAL-AIR. Products include spray liquids for environmental use out of doors at industrial premises, sewage works, crematoria, etc.

For indoor situations including toilets, washrooms, hospital wards, reception areas and the like, there are a number of dispensing units and a selection of odour counteractant gels and liquids which effectively neutralise malodours, leaving either an air-freshened effect or a residual perfume according to choice.

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First and Foremost in Ultrasonics
The Ultrasonics Division of
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Manufacturers of the SMOG-HOG electrostatic precipitator for collecting welding fumes, oil mist, etc. Collection efficiency enables cleaned air to be recirculated to Workshop area, thus obviating heat losses.
Also: SMOG-ROVA Flexible Fume Extraction Arms and TEMP-X-CHANGER cross-flow heat exchangers.

Photograph: SMOG-HOG MOBILE unit with SMOG-ROVA Fume Extraction Arms collecting welding smoke.

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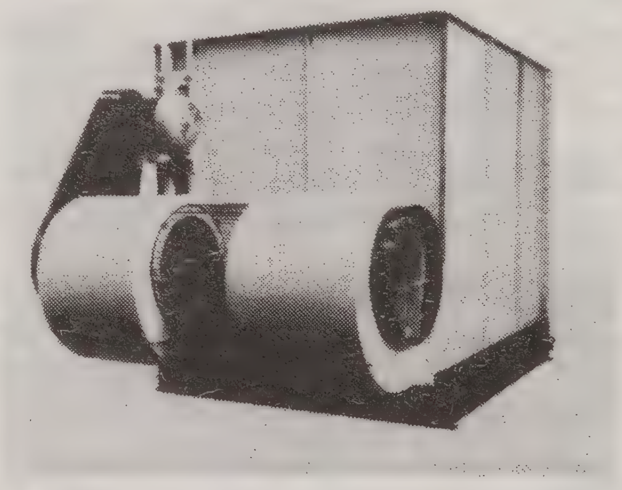
VISCO

Environmental Control Engineers



Environmental control engineers, specialising in the manufacture and installation of all types of dust and fume extraction and collection equipment, industrial ventilation and air filtration components and complete plant. Also manufacturers of evaporative water cooling towers and noise suppression equipment.

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All with full lecture notes; some with cassette commentaries.

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ERG Odour Purification Systems Ltd.
Electroloid Ltd. (Plastics Division)
Mass Transfer International

ACOUSTIC CONTRACTORS
Cirrus Research Ltd.
Industrial Acoustics Co. Ltd.
Pulsar Instruments

ACTIVATED CARBON EQUIPMENT
Engelhard Industries Ltd.
Sutcliffe Speakman & Co. Ltd.

ACTIVATED CARBONS
Sutcliffe Speakman & Co. Ltd.

AIR CONDITIONING EQUIPMENT
Actair International Ltd.
John Bass Ltd.
Electroloid Ltd. (Plastics Division)

AIR DRYERS
Engelhard Industries Ltd.
IMI Norgren Ltd.

AIR FLOW INDICATORS
Casella London Ltd.

AIR POLLUTION CONTROL
Actair International Ltd.
Courtaulds Engineering Ltd.
Electroloid Ltd. (Plastics Division)
Engelhard Industries Ltd.
ERG Odour Purification Systems Ltd.
Honeywell Control Systems Ltd.
Mass Transfer International
Metal Box Engineering
United Air Specialists (UK) Ltd.

AIR POLLUTION MEASUREMENT
Analysis Automation Ltd.
Charles Austen Pumps Ltd.
Bristol Industrial & Research Associates Ltd.
Casella London Ltd.
Dionex (UK) Ltd.
Horiba Instruments Ltd.
International Consulting & Laboratory Services

AIR PURIFICATION PROCESS EQUIPMENT
ERG Odour Purification Systems Ltd.
Mass Transfer International
Metal Box Engineering

AIR VELOCITY METERS
Bristol Industrial & Research Associates Ltd.

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Analysis Automation Ltd.
Dionex (UK) Ltd.

ANALYSIS APPARATUS : FUELS
Dionex (UK) Ltd.

ANALYSIS APPARATUS : GASES
Analysis Automation Ltd.

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Bruel & Kjaer (UK) Ltd.

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Nalfloc Ltd.

ARRESTORS
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Casella London Ltd.

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Electroloid Ltd. (Plastics
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BOILER FEEDWATER TREATMENT
International Consulting and
Laboratory Services
Nalfloc Ltd.

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Courtaulds Engineering Ltd.
Engelhard Industries Ltd.

BURNERS : GAS
Hamworthy Engineering Ltd.
Peabody Holmes Ltd.

BURNERS : OIL
Hamworthy Engineering Ltd.
Peabody Holmes Ltd.

BURNERS : SOLID FUEL
Peabody Holmes Ltd.

CANOPY HOOD
Electroloid Ltd. (Plastics
Division)

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Engelhard Industries Ltd.

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CENTRIFUGAL FANS (PVC AND POLYPROPYLENE)
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COMBUSTION CONTROL
Hamworthy Engineering Ltd.

COMBUSTION TESTING EQUIPMENT
Analysis Automation Ltd.

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Polkinghorne Industries Ltd.

CONSULTING ENGINEERS : AIR
Courtaulds Engineering Ltd.
International Consulting and
Laboratory Services

CONSULTING ENGINEERS : NOISE
Industrial Acoustics Company Ltd.
International Consulting and
Laboratory Services
Visco Ltd.

CONSULTING ENGINEERS : WASTE
International Consulting and Laboratory Services

CONSULTING ENGINEERS : WATER
Courtaulds Engineering Ltd.
International Consulting and Laboratory Services

CONTROLLERS : GAS PRESSURE
IMI Norgren Ltd.

CONTROLLERS : VIBRATION
Industrial Acoustics Company Ltd.

COOLERS : AIR OR GAS
Actair International Ltd.
Metal Box Engineering

COOLING TOWERS
Actair International Ltd.
Visco Ltd.

CYCLONES
F. E. Beaumont Ltd.
Casella London Ltd.
Lyon & Pye Ltd.
Peabody Holmes Ltd.

DAMPERS: GAS-TIGHT
Metal Box Engineering

DETECTORS : DUST
Analysis Automation Ltd.
Bristol Industrial & Research Association

DETECTORS : EXPLOSIVE GASES
Analysis Automation Ltd.
Crowcon Instruments Ltd.

DETECTORS : SO_2
Analysis Automation Ltd.
Casella London Ltd.

DETECTORS : TOXIC GASES
Analysis Automation Ltd.

DISTILLATION EQUIPMENT
Mass Transfer International

DRYERS : AIR
Engelhard Industries Ltd.

DRYERS : GAS
Engelhard Industries Ltd.

DRYERS : GAS ABSORPTION
Engelhard Industries Ltd.
Mass Transfer International

DUCTING
Electroloid Ltd. (Plastics Division)
ERG Odour Purification Systems Ltd.
Lyon & Pye Ltd.

DUST COLLECTION EQUIPMENT
Dust Control Equipment Ltd.
Metal Box Engineering
Visco Ltd.

DUST COLLECTION EQUIPMENT AND PLANT
Actair International Ltd.
Dust Control Equipment Ltd.
Metal Box Engineering
Peabody Holmes Ltd.
Visco Ltd.

DUST COLLECTORS
Dust Control Equipment Ltd.

DUST EXTRACTION, CYCLONES
Visco Ltd.

DUST SAMPLING EQUIPMENT
Bristol Industrial & Research Association
Casella London Ltd.
International Consulting and Laboratory Services

DUST SUPPRESSION EQUIPMENT
Ultrasonics Ltd.

EFFLUENT TREATMENT : MEDIA
Mass Transfer International

EFFLUENT TREATMENT : PLANT/ SYSTEMS

Courtaulds Engineering Ltd.
Engelhard Industries Ltd.
Hamworthy Engineering Ltd.
International Consulting and Laboratory Services
Mass Transfer International

EFFLUENT TREATMENT : SOLUBLE OIL PLANT

International Consulting and Laboratory Services

ELECTROCHLORINATION EQUIPMENT (ON SITE)

Engelhard Industries Ltd.

ELECTROSTATIC PRECIPITATORS

Actair International
Honeywell Control Systems Ltd.
United Air Specialists (UK) Ltd.

ELECTROSTATIC UNIT AIR CLEANERS

Actair International
Honeywell Control Systems Ltd.
John Laithwaite Associates Ltd.
United Air Specialists (UK) Ltd.

ENVIRONMENTAL TEST CHAMBERS

Industrial Acoustics Company Ltd

EVAPORATORS

Courtaulds Engineering Ltd.

EXHAUST PURIFICATION

Engelhard Industries Ltd.
International Consulting and Laboratory Services

FABRIC FILTERS

Actair International Ltd.
Dust Control Equipment Ltd.

FANS AND BLOWERS

Simdean Resin Fabrications Ltd.

FILTERS

John Bass Ltd.
Domnick Hunter Filters Ltd.

FILTERS : AIR

John Bass Ltd.
Honeywell Control Systems Ltd.

FILTERS : AIR : COMPRESSED

Domnick Hunter Filters Ltd.
IMI Norgren Ltd.

FILTERS : DUST

Actair International Ltd.
Dust Control Equipment Ltd.
IMI Norgren Ltd.

FILTERS : ELECTROSTATIC OIL MIST

Actair International Ltd.
Honeywell Control Systems Ltd.

FILTERS : WATER

Domnick Hunter Filters Ltd.
IMI Norgren Ltd.

FILTER CONDITIONING MONITORS

Polkinghorne Industries Ltd.

FILTRATION EQUIPMENT

John Bass Ltd.

FLUE DUST EXTRACTION PLANT

Lyon & Pye Ltd.
Mass Transfer International
Metal Box Engineering
Peabody Holmes Ltd.

FLUE GAS DUST MONITORING DEVICE

Dionex (UK) Ltd.

FLUE GAS DUST SAMPLING EQUIPMENT

Analysis Automation Ltd.
Bristol Industrial and Research Associates Ltd.

FLUE GAS TREATMENT

International Consulting and Laboratory Services
Mass Transfer International
Peabody Holmes Ltd.

FUEL ADDITIVES

Nalfloc Ltd.

FUEL EFFICIENCY ADVISORY SERVICE

International Consulting and Laboratory Services

FUELS : SOLID SMOKELESS
Coalite Group Ltd.
NCC Rexco Ltd.

FUGITIVE DUST SAMPLING
Bristol Industrial and Research Associates Ltd.

FUME EXTRACTION FANS
Electroloid Ltd. (Plastics Division

FUME REMOVAL EQUIPMENT
Actair International Ltd.
Electroloid Ltd. (Plastics Division)
ERG Odour Purification Systems Ltd.
Honeywell Control Systems Ltd.
Peabody Holmes Ltd.
Simdean Resin Fabrications Ltd.
United Air Specialists (UK) Ltd.
Visco Ltd.

FURNACES, OVENS, KILNS, ETC.
R. M. Catterson-Smith Ltd.
Metal Box Engineering

GAS CLEANING PLANT
Actair International Ltd.
Courtaulds Engineering Ltd.
Engelhard Industries Ltd.
Peabody Holmes Ltd.
Ultrasonics Ltd.

GAS COOLERS
Actair International Ltd.
Metal Box Engineering
Ultrasonics Ltd.

GAS DETECTORS
Analysis Automation Ltd.
Crowcon Instruments Ltd.

GAS PURIFIERS
Engelhard Industries Ltd.
Mass Transfer International

GAS SEPARATION
Ultrasonics Ltd.

GAS SCRUBBERS AND WASHERS
Actair International Ltd.
Courtaulds Engineering Ltd.
Electroloid Ltd. (Plastics Division)
Mass Transfer International
Peabody Holmes Ltd.
Ultrasonics Ltd.

GRIT ARRESTORS
Mass Transfer International

HEAT EXCHANGERS
Metal Box Engineering
United Air Specialists (UK) Ltd.

HEATERS : INFRA-RED
Phoenix Burners Ltd.

HEAT TRANSFER SYSTEMS
Metal Box Engineering

HEATING EQUIPMENT : INDUSTRIAL (PROCESS/SPACE)
Hamworthy Engineering Ltd.
Phoenix Burners Ltd.

HEATING SYSTEMS : GAS
Phoenix Burners Ltd.

HUMIDIFIERS
Ultrasonics Ltd.

HUMIDITY RECORDERS
Casella London Ltd.

INCINERATORS
Hamworthy Engineering Ltd.
The Incinerator Company Ltd.
Lyon & Pye Ltd.
Peabody Holmes Ltd.

INDICATORS : HUMIDITY
Casella London Ltd.

INDICATORS : SO_2
Analysis Automation Ltd.

INDICATORS : SOUND LEVEL
Bruel & Kjaer (UK) Ltd.

INSULATION : ACOUSTICS
Industrial Acoustics Company Ltd.

KITS : ANALYSIS, TESTING, SAMPLING
International Consulting and Laboratory Services

LABORATORY INSTALLATIONS
Electroloid Ltd. (Plastics Division)

LECTURES, FILMSTRIPS, TAPE SLIDES AND NOTES
Diana Wyllie Ltd.

LEAK DETECTORS
Ultrasonics Ltd.

MEASUREMENT AND DETECTION EQUIPMENT
Dionex (UK) Ltd.

METEOROLOGICAL INSTRUMENTS
Casella London Ltd.

METERS : SOUND LEVEL
Bruel & Kjaer (UK) Ltd.
Ultrasonics Ltd.

MONITORING EQUIPMENT
Bristol Industrial and Research Associates Ltd.
Bruel & Kjaer (UK) Ltd.
Casella London Ltd.

NOISE CONTROL CONSULTANTS
Cirrus Research Ltd.
Industrial Acoustics Company Ltd.
Pulsar Instruments Ltd.
Visco Ltd.

NOISE CONTROL MATERIALS
Industrial Acoustics Company Ltd.

NOISE SUPPRESSION
Industrial Acoustics Company Ltd.

NOISE/VIBRATION ATTENUATION
Industrial Acoustics Company Ltd.
Visco Ltd.

NOISE/VIBRATION : CONTROL ENGINEERS
Industrial Acoustics Company Ltd.
Visco Ltd.

NOISE/VIBRATION : CONTROL SYSTEMS
Industrial Acoustics Company Ltd.

NOISE/VIBRATION : MEASURING EQUIPMENT
Bruel & Kjaer (UK) Ltd.
Cirrus Research Ltd.
Pulsar Instruments Ltd.
Ultrasonics Ltd.

NOZZLES : SPRAY
Ultrasonics Ltd.

ODOUR ABSORPTION
Courtaulds Engineering Ltd.
Electroloid Ltd. (Plastics Division)
ERG Odour Purification Systems Ltd.
John Laithwaite Associates Ltd.
Mass Transfer International
Simdean Resin Fabrications Ltd.

ODOUR ADSORPTION
Courtaulds Engineering Ltd.
Domnick Hunter Filters Ltd.
ERG Odour Purification Systems Ltd.

ODOUR CONTROL
Courtaulds Engineering Ltd.
ERG Odour Purification Systems Ltd.
International Consulting and Laboratory Services
Mass Transfer International
Metal Box Engineering
Sterling Industrial

ODOUR CONTROL : CATALYTIC COMBUSTION
Cleerburn Ltd.
Courtaulds Engineering Ltd.
Engelhard Industries Ltd.

OIL DISPERSANTS
Nalfloc Ltd.

OIL MIST ELIMINATORS
Actair International Ltd.
Domnick Hunter Filters Ltd.

OVENS: INDUSTRIAL
Metal Box Engineering

OXYGEN ANALYSERS
Analysis Automation Ltd.
Crowcon Instruments Ltd.

PIPELINE EQUIPMENT
IMI Norgren Ltd.

POLLUTION CONTROL ADVISORY SERVICES
Industrial Acoustics Company Ltd.
International Consulting and Laboratory Services
Metal Box Engineering

PROCESS INSTRUMENTATION
Analysis Automation Ltd.

PUMPS
Charles Austen Pumps Ltd.
Hamworthy Engineering Ltd.

RADIANT HEATING
Hamworthy Engineering Ltd.
Phoenix Burners Ltd.

RESEARCH & DEVELOPMENT FACILITIES
International Consulting and Laboratory Services

SAFETY EQUIPMENT
IMI Norgren Ltd.

SCRUBBERS
Actair International Ltd.
Courtaulds Engineering Ltd.
Electroloid Ltd.
ERG Odour Purification Systems Ltd.
Mass Transfer International
Peabody Holmes Ltd.
Simdean Resin Fabrications Ltd.

SEPARATORS : LIQUID
Electroloid Ltd.

SEWAGE TREATMENT PLANT
Engelhard Industries Ltd.
Hamworthy Engineering Ltd.
Mass Transfer International

SMOKE DENSITY GAUGES AND METERS
Leslie Hartridge Ltd.
(Smokemeters for diesel engine exhaust opacity measurements as called for by EEC 73/306)

SO_2 SAMPLERS
Casella London Ltd.

SOLVENT RECOVERY PLANT
Courtaulds Engineering Ltd.
Sutcliffe Speakman & Co. Ltd.

SPRAYING APPARATUS FOR DEODORANTS, ETC.
IMI Norgren Ltd.

STACK EMISSIONS : MONITORING EQUIPMENT
Dionex (UK) Ltd.
Horiba Instruments Ltd.

SULPHUR DIOXIDE REMOVAL SYSTEMS
Mass Transfer International
Peabody Holmes Ltd.

TANKS AND TANK LININGS
Electroloid Ltd.
Lyon & Pye Ltd.
Simdean Resin Fabrications Ltd.

TEMPERATURE RECORDERS
Casella London Ltd.

THERMOMETERS, INDICATORS, ETC.
Polkinghorne Industries Ltd.

THERMOSTATS
Polkinghorne Industries Ltd.

TOWERS
Electroloid Ltd.

TRADE ASSOCIATIONS
EPEMA

UNIT DUST COLLECTORS
Dust Control Equipment Ltd.

VENTURI SCRUBBERS
Electroloid Ltd.
ERG Odour Purification
  Systems Ltd.
Peabody Holmes Ltd.

WARM AIR HEATING SYSTEMS
Cleerburn Ltd.

WASHERS : AIR OR GAS
Peabody Holmes Ltd.

WASTE DISPOSAL EQUIPMENT
Cleerburn Ltd.

WASTE DISPOSAL SPECIALISTS
International Consulting and
  Laboratory Services

WASTE HEAT RECOVERY
Cleerburn Ltd.
Hamworthy Engineering Ltd.
Metal Box Engineering

WASTE, LIQUID DISPOSAL
Metal Box Engineering

WASTE MATERIAL DISPOSAL FURNACES
Cleerburn Ltd.
The Incinerator Company Ltd.

WASTE PURIFICATION
Courtaulds Engineering Ltd.
International Consulting and
  Laboratory Services

WATER TREATMENT PLANT
Engelhard Industries Ltd.
Nalfloc Ltd.
Simdean Resin Fabrications Ltd.

WET ARRESTORS
Dust Control Equipment Ltd.
Electroloid Ltd.
Mass Transfer International
Peabody Holmes Ltd.